

DX News

•Serving DX'ers since 1933•

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CPC Test Calendar

HCJE 690 May 29, 1994 0100 EDT

From the Publisher ... Lots of good stuff inside, including complete details on the "alphabet shuffle" amongst various stations in Cincinnati. Those of you who have ordered a copy of the membership list and haven't yet received it ... I appreciate your patience. The next edition will be mailed after September 1, and Ken and I are working on adding the list to the Reprints catalog.

I received a complaint recently, but as often happens, the complainer had sent an item to the wrong address, which can add several weeks to returnation. As we approach the summer months, let's remember that the NRC is a volunteer club and that important duties and responsibilities have been divided between a number of members. Now, every time that I remind members to check the back page for the proper address to which they should send items, the volume of renewal checks sent to Topeka (WRONG!) increases, for some reason. Nevertheless, check the back page for the various addresses; in addition, remember that station changes in AM stations should be sent to Jerry Starr and programming changes to Tony Fitzbert, including those in newspaper clippings (their addresses are with their columns this issue); news of the radio industry should go to Pete Kemp (P.O. Box 73, Bethel, CT 06801-0073); other clippings may go to Topeka. And thanks to all who continue to support DX News by sending items to me or to the various columns. Also, don't forget to send status changes in stations to Jerry Starr, as the next edition of the NRC AM Log isn't very far away.

DXChange ... Charles C. Harrison - 3 Hollywood Lane - Lincoln, RI 02865-2213, (401) 334-2517 is selling his R-390A (you pick up). It's a Stewart Warner Nbr 1433, and he'll throw in copies of *Hollow State News Letter*, numerous NRC reprints,

and a Hallicrafters SX-62, all for \$325.00 ... A new publication is *The Medjet Letter*, which caters to MW experimenters, particularly those who broadcast with non-directional beacons. No subscription price is mentioned, so you might want to send Mark Burkart: 6713 Belaire Dr. - New Orleans, LA 70124 an SASE for a sample of the newsletter ... your publisher has a rather large selection of inexpensive 35 mm SLR cameras (most under \$75) which he'd trade for radio-related items, including collector-type things such as coffee cups, refrigerator magnets, and certain receivers.

Welcome to these new members ... Mario J. Stuttenheim, Montauk NY; Lawrence Davis, Kansas City, KS; Donna M. Gabriel, Philadelphia, PA; Alfred L. Hemmell, Middletown, RI; James J. Corsiello, South Bend, IN; Keith A. Belongin, Racine, WI; Shawn Hurbutt, Middletown, CT.

Remaining DXN Schedule, Volume 61

#	Deadline/Pub. Date	29. Aug. 5	Aug. 15
22.	June 10	June 20	30. Sept. 9
28.	July 8	July 18	Sept. 19

DX Time Machine

From the pages of DX News:
50 years ago ... from the May 20, 1944 DXN: NRC President Joe Becker, the "Hamilton (Ohio) Night Owl", thanked members for their support during the past season and pleaded for more CPC workers to help Chairman Enle Cooper.

25 years ago ... from the May 3, 1969 DXN: Another 32-pager ... Musings editor Erle Cooper requested that members observe the 30-line limit in their Musings, as the bulletin was tight on space ... from the May 24, 1969 DXN: *Come Ohio* published a list of Colombian stations ...

10 years ago ... from the May 7, 1984 DXN: Ray Cole published a construction article for a *knock-your-socks-off* amp.

2 AM Switch

Jerry Starr
c/o WHOT Radio
4040 Simon Road
Youngstown, OH 44512-1320

CALL LETTER CHANGES

Old call	New call	Old call	New call
540 WSTH GA Columbus	WDAC	1230 WFTF GA Gainesville	WGCG
550 WLVA OH Cincinnati	WCCK	KMUZ OR Gresham	KCKB
600 WOKV FL Jacksonville	WPDQ	1240 WEZK TN Knoxville	WZLZ
690 WPDQ FL Jacksonville	WOKY	1270 WHYD GA Columbus	WMOA
820 WRTA FL Largo	WYTA	1300 WYXI MS Jackson	KSDT
900 KICR LA Oakdale	KREH	1320 KHSJ CA Hemet	WJGR
WDKW VA Staunton	WBGT	WQIK FL Jacksonville	WAOZ
910 WDAR AL Pepperell	WTLN	1360 WSAI OH Cincinnati	WAVP
970 KCTR MT Billings	KDWG	1390 WKHP FL Avon Park	WYXI
1000 WTAZ AL Huntsville	WDJL	1400 WOAD MS Jackson	WYXI
1010 KHSB AR Little Rock	KSYG	1430 WCKN IN Indianapolis	WJBL
1020 KKSJ CA Polson	KDOQ	1470 WVBX SC Georgetown	WLMC
1050 WTLN AL Alexander Cy	WFRS	1530 WCKY OH Cincinnati	WSAI
1060 WPMX MS Tupelo	WVZD	1550 KAPL CA Apple Valley	KWNR
1070 KRBE TX Houston	KENR		

APPLICATIONS/GRANTS FOR NEW STATIONS

None

APPLICATIONS FROM EXISTING FACILITIES

710 KUET AZ	Black Canyon City change CP to U2
970 KNFX MN	Austin: night power to 4500 watts
1200 WCHB MI	Taylor: powers to 50000/15000

GRANTS TO EXISTING FACILITIES

680 CBOM NT	Fort McPherson: to 690 kHz (LPRT)
920 WKXD AL	Andalusia: night power to 40 watts, antenna to U1
1010 KLAT TX	Houston: night power to 3600 watts
1040 KURS CA	San Diego: night power to 63 watts (Log shows 470 watts nights, a typo, was 47 watts, now 63 watts)
	Moca: power to 5000 watts
	Gallatin: powers to 2300 watts (940 CH)
1130 WAGM TN	Reno: reduce powers to 820/820
1230 KCBN NV	Covington: reduce day power to 900 watts
1250 WKBL TN	San Bernardino: night power to 600 watts
1350 KCKC CA	Pearl City: CP powers to 6200/6200
1380 KIFO HI	



OTHERNESS

610 CJAT BC	Trail: will move to FM (95.7) and delete AM
640 WVVZ NJ	Mount Holly: several interesting RUMORS are circulating about this silent station which is reportedly at odds with the owner of their present transmitter site; one is that they will return to the air by dipping into the 4-tower system at WJPL-1460 and the other one has them being sold to KYW-1060 for a simulcast to fill in the deep null KYW has toward NYC (protecting 1050 kHz). We stress the word "RUMOR".
690 WOKV FL	Jacksonville: silent as WPDQ, is now ON THE AIR presently simulcasting on their old frequency of 600 kHz with the old 690 calls, WPDQ
880 KUTE CA	Desert Hot Springs: CP for new station CANCELLED and call DELETED
890 WBNM MA	Decham: powers to 25000/5000 U4, city of license to Wailley, MA, relocate transmitter site
930 CJCA AB	Edmonton: silent station (thought to be deleted) is ON THE AIR
1060 KXER CA	Templeton: CP for new station CANCELLED and call DELETED

1070 WSCP NY	1110 WZAM VA	1150 WCEN MI
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Sandy Creek: station is SILENT
West Kiamath: station is SILENT
Norfolk: silent station is ON THE AIR
Mount Pleasant: station is SILENT, towers and studios have been torn down to make way for a shopping center, their FM remains on the air and they expect the AM to return eventually as a non-directional daytime-only facility

1190 WMBE PA	1220 KRGO CA	1230 CBQO NT
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Hughesville: station is SILENT
Fowler: silent station has been sold but the sale is contingent on the FCC reinstating their expired CP for move to 1210 kHz.

1270 WTMQ GA	KSCB KS
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Fort Franklin: change name of city to Delina, station will soon move to 105.1 FM and delete AM
Columbus: silent at WHYD is now ON THE AIR
Liberal: reduced night power of 30 watts and U1 antenna is ON THE AIR

1300 WNQM TN	1330 KDRO ND	1340 CBNH NE	1390 WEGP ME	CHOO ON	1400 KLIBB MN
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Nashville: 10000 watt day power is ON THE AIR
Wishak: application for 253/108 U1 is DENIED
Seaston: will move to 93.7 FM and delete AM
Presque Isle: silent as WTMS, is ON THE AIR
Apex: requests 93.7 FM and delete AM
St Paul: in the last issue when this station left here it was on 1400 kHz but somehow by the time it appeared in DX News it was magically transported to 1530 kHz. Wrong! It's still on 1400 kHz. How this happened is a puzzle. (Another one of the publisher's ignorant errors? -pls)

1460 KULA HI	1480 CKER AB
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Maunawili: station is SILENT
Edmonton: station is in hearings for possible move to FM at which time AM will be deleted

1570 KUAU HI	1580 WCCF FL	???? BC
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Haku: station is SILENT
Punta Gorda: CP for 670/350 U4 is ON THE AIR
Revelstoke: new Canadian "Weatheradio" service is on the air here with continuous weather info, runs 60 watts into the CKCR-1340 tower so has a pretty good range, can be heard on portable radios in downtown Edmonton. The Atmospheric Environment Service which runs this prototype reports they already have one on the air in Siamous, BC on 1260 kHz as well as Castlegar, Vernon, Penticton and "a few around the coast" but no frequencies were given. These could be quite DXable.

THANKS: Wayne Heinzen, Ed Krejny, James Dale, Brian Vernon, Shawn Axelrod, Dave Schmidt, Hank Holbrook, Andy Rugg, John D. Bowler, Al Merriman, Martin Marietta, Dick Trux and M Street Journal

73 and Good DX
Jerry's BKF

Jerry Starr & Buffalo K. Foonman

Steven
Wolam
Bath Brunswick 730 AM
Portland 870 AM
Lewisston Auburn 1470 AM

IRCA Mexican Log, 3rd Edition, Now Available!

After months of preparation, IRCA has published the 1994 edition of the IRCA Mexican Log. The log lists all AM stations in Mexico by frequency, giving call letters, state, city, day power, night power, slogans, schedule in UTC GMT, formats, networks, and notes. Stations that have changed frequency since 1990 are cross-referenced on the old frequency.

The call letter index gives call frequency, city and state. The city index (listed by state, then city) gives frequency, call, day and night power. There is even a guide to the Spanish alphabet and numbers.

The log has been completely updated from the 1990 edition and carefully cross-checked by IRCA members in Mexico and the U.S. This will be an indispensable reference for anyone who hears Mexican radio stations.

The price, payable to IRCA/US, funds: IRCA/US Member \$6 U.S./Canada/Mexico/central, \$7 rest of the Americas; \$9 rest of the Americas; \$9.50 Europe/Asia; \$10 Australia/New Zealand; \$11.00 Australia/New Zealand; \$12.00 Australia/New Zealand; \$13.00 Australia/New Zealand; \$14.00 Australia/New Zealand; \$15.00 Australia/New Zealand; \$16.00 Australia/New Zealand; \$17.00 Australia/New Zealand; \$18.00 Australia/New Zealand; \$19.00 Australia/New Zealand; \$20.00 Australia/New Zealand; \$21.00 Australia/New Zealand; \$22.00 Australia/New Zealand; \$23.00 Australia/New Zealand; \$24.00 Australia/New Zealand; \$25.00 Australia/New Zealand; \$26.00 Australia/New Zealand; \$27.00 Australia/New Zealand; \$28.00 Australia/New Zealand; \$29.00 Australia/New Zealand; \$30.00 Australia/New Zealand; \$31.00 Australia/New Zealand; \$32.00 Australia/New Zealand; \$33.00 Australia/New Zealand; \$34.00 Australia/New Zealand; \$35.00 Australia/New Zealand; \$36.00 Australia/New Zealand; \$37.00 Australia/New Zealand; 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MEDIUM WAVE RAMBLINGS

☐ If you don't get your fill of Special stuff after reading this issue, we'll try harder next month!

☐ Here are the deadlines for DD&D-W for the remaining Issues of DX news for Volume 61:

Issue 27	June 4	Issue 28	July 2	Issue 29	July 30
Issue 30	September 3	Stay tuned for Volume 62. It's gonna be a good 'un.			

Eric Bueneman, NUH Hazelwood DX-200, 1M-152, SM2
Shawn Axelrod, Winampeg, ICOM R-70 w/ PLAM board & 0.5, 2.4 & 4 kHz filter + 4

light programming

KB radio 1520

678 KBOI ID Boise - Has picked up the weekend CBS Baseball Games of the Week, although they remain with ABC for the main network. [Ed-ID]

690 KTCJ MN Minneapolis - MBD Broadcasting and Chancellor Communications (owned by the same individual) out of Dallas, Texas are acquiring 11 radio stations from American Media Inc., including this station and KTCJ's FM, KTCZ, for \$150 million. This transaction, one of the largest since the Federal Communications Commission relaxed ownership restrictions of radio stations, is subject to FCC approval. MBD, which does not currently own any radio stations, is also acquiring WUBE-AM & FM and WYGY-FM in Cincinnati; WALK-AM & FM in East Patchogue, New York; KMEN-AM and KGGC-FM in Riverside/San Bernardino, California; and WOCL-FM in Orlando, Florida. Chancellor, which currently owns KTRB-AM and KGBY-FM in Sacramento, is acquiring KHYL-FM there. [Ed-ID]

710 KMPC CA Los Angeles - Capital Cities/ABC Inc.'s KABC Radio Inc. has signed a definitive agreement to buy KMPC, owned by Golden West Broadcasters. Golden West is owned by my favorite cowboy, Gene Autry (sorry Roy) and his wife. It looks like KMPC will probably be switching to a "Hot Talk" format, geared towards 18-34 year-olds around the first of May. This will be in direct competition with KFI. The fire is already being stoked as former KFI and WRKO personality Tom Laykis will be starting on KMPC in Afternoon Drive around May 9th. Incidentally, Gene bought KMPC in 1992 for \$800,000 and is selling it for \$20 million. [Ed-ID]

750 WSB GA Atlanta - Phone number on v/l is 404-897-7500. (GH-KS)

790 WWSB GA Atlanta - Has snatched the contracts for the Atlanta Hawks and Atlanta Braves from WGST-640/105.7. Hawks coverage to begin with the 1994-95 season. Braves with the 1995 season. Also, WWSB's owners (Cox Broadcasting) are also attempting to buy WJZA-104.1 La Grange, GA. (BA-GA)

KMMJ NE Grand Island - Has moved to 3280 Woodbridge Blvd Suite 200, per v/l. P.O. Box and ZIP are as in Log. (GH-KS)

(WQSV) TN Ashland City - 4/17 -1945 - Off, (and I was about 100' from their tower at the time). Tom Bryant says this has been off since at least 4/10. WQSE-1030, which used to relay them, is still on with a mix of country & nostalgia. (DS-TN)

930 CICA AB Edmonton - 4/24 0632 - Strong, with it's 4.32. You're listening to CICA into CICS/REL music. Back on air. Will NOT air preaching or "church services." (SA/WMAK) KJPN HI Waipahu - 5/9 - Is now all Japanese programming with these CIs, after a buyout by local and foreign businessmen. IDs as J-94. Ex: KDEO & C&W. (DP-HD)

970 KZMW AZ Show Low - 4/12 0900 - Noted several times with what seems to be a new EZL-type format. Some selections almost classical. Good on peaks this day, over/under OER. Also noted 4/17 0934 with ID: With more Standard AM coverage than any other Navajo or Apache County radio station, this is KZMW-AM and FM, Show Low. (JV-CO)

990 KRXX MN Richfield-Mnneapolis - Has not gone silent, at least as of 5/4. I expect them to go silent when KEGE-93.7's sale is final. (JE-MN)

1000 KKM NM Albuquerque - 4/9 2131 - Apparent format change to C&W music. Ex: REL. Slogan as *Forever Country KKM*. Good signal, still on day power. (JV-CO)

1030 KBBQ MO Blue Springs - No longer // FM. Now doing talk, from The People's Network. (DE-MO)

1060 WPHC TN Waverly - While scanning FM I heard WVRV-105.1 run a dual ID with WPHC-1060. Checking AM, WPHC is indeed now simulcasting WVRV-105.1 with satellite outlets. (DS-TN)

1120 WKOW PA Oil City - Now AC (seemingly satellite-delivered) and IDing as 1120 KQW. No longer // FM 96.3. (GC-NY)

1130 WWWWMI Detroit - Article in Billboard magazine says WWWW will go all sports in June. (JE-MN)

1140 KPRB MO Pledmont - 4/2 1759 - With Southern Gospel music, ad for local church. VID. Change from AC format. (DE-MO)

1230 WUBE OH Cincinnati - See 690-KTCJ.

1260 KDUZ MN Hutchinson - Adds AC and Country to its Oldies format. (JE-MN)

1270 WTMQ GA Columbus - Station is now back, with SS format. Ex: WHYD, Contemporary Christian. (BA-GA)

1290 KMMN CA San Bernardino - Taken over by Infinity Broadcasting. [Ed-ID]

1330 WPCF FL Panama City Beach - Now travelers' information. (EB-MO)

1360 WKAI OH Cincinnati - 4/29 Midnight - Fair-to-poor, with KSCJ/KAHZ/WGEE, with legal ID. Sounded like a News/Talk format. Ex: WSAI (which moved to 1530). (EB-MO)

KRRS TX Corpus Christi - Now carries SEN Sports 24 hour, per announcement on network. [Ed-ID]

KAHZ TX Fort Worth - 4/28 2258 - Fair-to-poor with KSCJ/WGEE/KHAZ with contest winner, *Radio Oz* promo, into kids' programming. (EB-MO)

1370 KKSJ CA San Jose - 4/26 - Back on the air with a sort of easy listening/big band combo with live DJs, an occasional live local newscast, and Metro Traffic. KEEN, country music since 1946, was taken down January 1, 1993 because the estate of the original owner of the station and land decided they could make more money with the land than with the station. The land will become an office park. So, the staff was told to go out and find a place to put it back up. But where do you put 3 towers in Silicon Valley? So, the station was moved to the KSJX-1500 transmitter site and a new 4-tower array was designed using the existing 4-tower directional array of KSJX. [Ed-ID]

1370 WALK NY East Patchogue - See 690-KTCJ.

1430 GTEL ON Toronto - Has applied to the CRTC to buy CKYC, and move to 590. Telemedia Communications executive vice-president Don Pagnutti said Telemedia's flagship radio station, *The Fan*, an all-sports radio station, operates on 1430 with limited coverage to areas outside of Metropolitan Toronto. He said acquisition of CKYC will allow *The Fan* to reach a larger potential audience. He added that a decision hasn't yet been reached on the disposition of *The Fan*'s current frequency. [Ed-ID]

1440 WPRS IL Paris - Is now C&W. // their FM, WACE 98.5. (GC-NY)

1450 KIOV ID Payette - 5/1 - Has returned to the air with SS programming. Frank and I have egg on our faces. h. [Ed-ID]

1470 KBCW MN Brooklyn Park - 4/26 2210 - Good with *Music of Your Life* on 14, KLBB into NOS/BBB music. Now // KLBB-1400 St. Paul. (SA-MB)

KWRD TX Henderson - Phone number on v/l is 903-657-4528. (GH-KS)

1530 WCKY OH Cincinnati - 4/13 2213 - Good with continuous loop announcing WCKY is now on 550. WCKY ID at 2300. (SA-MB)

WCKY OH Cincinnati - 4/17 2013 - During break in Kalamazoo vs. Cyclones minor-league hockey, with call ID as 1530 WSAI. Not a legal ID, as I believe calls are still actually WCKY. Earlier in the week, I've also heard canned preachers and a tape loop directing Bush Limbaugh and G. Gordon Liddy listeners to 550. (DS-TN)

WCKY OH Cincinnati - Drops News/Talk for local programming 0600-1800, then Unistar AM Only 1800-0600 as WSAI. Also drops CBS News for NBC. Legal ID is still WCKY. They've still got a 7-second delay from the talk format. There's also talk of moving Limbaugh to WCLW-700. (JE-MN)

WSAI OH Cincinnati - 4/14 2200 - With adult standards music, WSAI ID. Ex: WCKY. New call and format. (SA-MB)

WSAI OH Cincinnati - 4/28 2212 - Very good with Unistar AM Only feed, AM 1530 WSAI ID. mention of the above date being *Kiss Your Mate Day*, local ads. NBC News noted at 2300. Ex-1360. (EB-MO)

[There has been big switchover of call signs and formats in the Cincinnati market. IACR, WLW's owner, is buying WCKY (and it's FM). How 1360 got into the mess...?? I picked up some on this, first off Fido-Net and later off the biznews wire. 1360 was mentioned in a story as joining the Children's Radio network (Oz) out of Minneapolis. WCKY's news/talk programming was to go to 550, and 1530's format was rumored to be NOS. What is happening to "WLWA" and how all the call letters will end up out the shaker is still to be seen, and heard, by you guys back east. Jerry Starr will, no doubt, have it all sorted out in AM Switch. [Ed-ID]

WEVZ PA Erie - With standards music. Ex: 1330 and NOS (North East). (GC-NY)

1540 WFNE OH Niles - Is now formatted as Comedy. Ex: UC. (GC-NY)

UNDS and UNID HELP

750 UNID 77 - 4/19 0715 - With IRN. Gone by SR. KOALZ (JE-MN)

770 WXXP 77 - 4/11 2227 - Sounding Mexican (SS announcer, XE music), but as 2302 heard a definite *Doble-u egis-eh-hola*. Might have been a mention of a network affiliate during top-of-hour news break. Looping SSE. (JV-CO)

790 UNID 77 - 4/6 0713 - Fair, in QRM, with traffic, weather, 93 Q slogan. Looped SSE. Suspect KBBQ. (JV-CO)

1190 KMFJ MN Wabasha - A match for SA/WMAK (Issue 24), per my FM Atlas. (GH-KS)

1260 UNID 77 - 3/27 0030 - Poor with NOS music. Heard during WNRK test. (SA-MB)

1400 UNID 77 - 4/1 0458 - Fair with EZL music, dual ID as WRUV and W777 into CBS News. (SA-MB)

1480 UNID 77 - 4/15 0530 - Fair with heavy rock music. Faded up for 10 minutes. (SA-MB)

- 1530 UNID 77 - 5/2 1700 - Someone testing with intermittent tones, making it hard to hear Cincinnati's Legal ID. Could be any number of daytimers on this frequency. (JE-MN) [At 1700H? Maybe one of the "salents" or a newie getting ready to come on? - Ed.]
- 1656 0171 77 - 11/23 2400 (an oldie but goodie) - UNID by Bruce Winkelman in Issue 11 is probably a fishing net buoy. This, and next, two attributed to a list of stations between 1610 and 1800 kHz in the Grove Shortwave Directory. (SA-MB)
- 1657 KA90 77 - 11/24 0004 - Definitely a fishing beacon. (SA-MB)
- 1663 B466 77 - 11/23 2127 - Also a fishing buoy beacon. (SA-MB)
- DX AND EQUIPMENT TESTS**
- 550 KOAC+ OR Corvallis - 3/28 0330-0400 - Fair signal with CID, VIDs, and Stars and Stripes Forever. (FA-ID)
- 780 KOAC- OR Corvallis - 3/28 0330 - Not heard. Only KFYR & KSD. (SA-MB) Not heard. Just KBOW/KTSA/KOY /++ and some KLZ-560 splatter. (JW-CO)
- 780 WWOI- NC Forest City - 4/8 0300 - Nothing, due to massive Northern Lights display. (SA-MB) Nothing heard. (FA-ID) No dice. Just WBNA/KKOH / noise. (JW-CO)
- 820 WYAM-TN Jasper - 4/2 0030 - Not heard. CHAM, WBAP & CKIS splatter only. (SA-MB)
- 930 WTLB WI Auburndale - 4/8 0230 - Fair signal, good copy with TEs at 0229, 0231, 0238 and 0239. New. (SA-MB)
- 1230 KETB IA Marshalltown - 4/17 0100-0130 - Nothing heard. (FA-ID)
- 1240 KCCR+ SD Pierre - 4/4 0103 - Fair-to-poor with one full CID and parts of others. Unheard. (JW-CO)
- 1260 KCCR- SD Pierre - 4/4 0100-0130 - Nothing heard. (FA-ID)
- 1270 WNRK DE Newark - 3/27 0000 - Extremely tentative with tones at 0203. WNDE and KTTS there. (SA-MB)
- 1270 WNRK- DE Newark - 3/27 0000-0030 - Nothing heard. (FA-ID)
- 1300 WCCG- NC Belmont - 3/27 0300 - Nothing heard. (SA-MB) Nothing heard. (FA-ID)
- 1300 WOPM MN Princeton - 4/11 0130-0200 - Heard what may have been some tones, but unable to identify. (FA-ID)
- 1300 WOPM- MN Princeton - 4/11 0130 - Not heard. Only XEP & others in background. (JW-CO)
- 1450 KVOH- WY Riverton - 4/11 0210-0220 - Nothing heard at this time. (FA-ID)
- 1570 KCVR+ CA Stockton - 3/28 0300-0330 - Heard several CIDs, VIDs including echo chamber. A better test than last time. Good signal. (FA-ID)
- KCVR+ CA Stockton - 3/28 0308 - Fair-to-poor in QRM with several CIDs, one VID noted. New. for CA #86. (JW-CO)
- KCVR- CA Stockton - 3/28 0300 - Nothing from them, as CKMW too strong to hear a test. (SA-MB)
- TIS & OTHER STUFF**
- 530 WTBNS21 CO Central City - 4/8 1227 - Fair w/info on Central City, ID: Central City Travel Radio slogan. Loop tape. (CK-CO1)
- WNFZ294 CO Georgetown - 4/8 1237 - Info on Bighorn Sheep, ID, Loop tape. (CK-CO2)
- 1570 TIS CO Breckenridge - 4/8 1303 - Good w/ski info, etc. Does not ID. Welcome to beautiful Breckenridge. (CK-CO3)
- KNCN250 CA San Bernardino - 4/13 0240 - Good w/ID. Highway Advisory Radio, mention of being operated by "Caltrans". Another STN under. (CK-CA)
- WNWE970 NM Fort Wingate - 4/17 2215 - Good w/Loop tape narrated by Ricardo Montalban, with history of the immediate area - very interesting! ID. (CK-NM1) [De plane. De plane! - Ed.]
- WNWE971 NM Raton - 4/18 1620 - XLNT in passing w/Loop tape narrated by Ricardo Montalban, similar to the TIS at Ft. Wingate, ID. Long loop tape. (CK-NM2)
- 1610 KOP728 UT Crescent Junction - 4/8 1826 - Loop tape, ID, sign on HWY, info on SE UT parks. (CK-UT1)
- TIS UT Fremont Indian State Park - 4/9 1210 - Loop tape, info on park, never ID'd. (CK-UT2)



MIDNIGHT TO 0800 HOURS ELT

- 530 KMVI HI Wailuku - 4/18 0526-0602 - Fair with Portuguese music. Sounds of Portugal with DJ speaking EE. IDs at 0530 and 0600. Formal sign-off with 5SB at 0602. (JW-OR)

- 560 KLZ CO Denver - 4/13 0242 - Fair in KSFO null, w/Christian Contemporary music, ID as 56 KLZ, Eric Scott DJ. (CK-CA)
- 620 WRIZ TN Knoxville - 4/11 0322 - Very good-to-fair, over UNID, SS with light Christian music, station promos, anti-drug PSA, Grace To You promo, Jay 62 IDs. (EB-MO)
- 630 CKRC MB Winnipeg - 5/2 0159 - Good-to-poor with intermittent SS, over mess, with frequent Country 630 IDs, C&W music, national news and local ads. Winnipeg 45 from this QTH. (EB-MO)
- CFCO ON Chatham - 4/24 0304 - Weak with SBN news, Good Times and Great Oakes. During WDCY silence. (JE-MN)
- 640 WOI IA Ames - 4/11 0342 - Good-to-poor, mixing with Cuba, with talk on the upcoming elections in South Africa from the BBC World Service, This is London ID at 0359, legal ID at 0400 into BBC News. (EB-MO)
- 660 CIFA AB Edmonton - 4/15 0652 - Good with FF talk and music. Over/under CIOB. (SA-MB1)
- 780 KSP1 OK Stillwater - 4/5 0722 - With C&W music and VID. In for only seven minutes [and you were there - Ed.] OK #13. (DE-MO)
- 830 KHVH HI Honolulu - 4/18 0534 - Fair-to-good with talk show return of Coast-to-Coast AM [that sounds like the Art Bell thing from Parunpuk, Nevada via KDWIN. He's big on UFO topics - Ed.] ID as New 830 KHVH - Hawaii's new talk, traffic and weather station. (JW-OR)
- 850 KHLO HI Hilo - 4/18 0515 - Fair-to-poor, with KOA null'd, with AM 850 KHLO ID and C&W music. (JW-OR)
- 860 KOSE AR Osceola - 3/31 0725 - With Arkansas Radio News net, local ad for Carceia Grain Elevator VID. Then KRCW-KS came on with day power/pattern. (DE-MO)
- 890 KBYE OK Oklahoma City - 4/6 0710 - With southern GOS and ad for the Lord's Garage Sale. OK #14. (DE-MO) [That must be one heckuva sale, hi - Ed.]
- 900 WCOK AL Mobile - 4/2 0305 - UC Music with VID. AL #9. (DE-MO)
- KSCL KS Wichita - 4/6 0700 - Fair in QRM with You're listening to Sunshine Radio, KSCL Wichita. (JW-CO)
- KRAL MO Fulton - 4/6 0659 - With local ad, ID by male: Central Missouri's source for news, KRAL Fulton. Fair over QRM. (JW-CO)
- 950 WSPA SC Spartanburg - 4/2 0200 - With overnight sportstalk & VID into CBS News. Log sez MBS. SC #3. (DE-MO)
- 960 KZIM MO Cape Girardeau - 4/12 0706 - With local news and The Cape's News Station slogan. News followed by VID. (DE-MO)
- CFAC AB Calgary - 4/1 0258 - Very pleasant female announcer, liberally giving out VID numerous times and C&W music. AB #1. (DE-MO)
- 1230 CHFC MB Churchill - 4/15 0558 - Fair with sign-on for CBC Manitoba and into national news. (SA-MB1)
- 1240 KQEN OR Roseburg - 4/24 0722 - Fair with ID within a MBS network talk program. New. (SA/MC/R)
- 1250 KURB AR Small Stone - 3/17 0100 - ID by male, then AC or UC, hard to tell. Poor, but barely readable, but needed for call change. (JW-CO)
- 1348 GJNC MB Norway House - 4/15 0622 - Fair, playing a wide variety of music - NOS, country, bluegrass. CBC Northern Service. New! (SA-MB1)
- 1398 WRIC WI Schofield - 4/12 0722 - With nostalgia music. Slogans More Memories WRIC and Original Hits. (JE-MN) [Remember when these guys were on 1400 and called themselves Big Rig? - Ed.]
- 1450 KIBM OR La Grande - 4/24 0715 - Fair with promo for Rush Limbaugh and dual ID for 1450 & 1490. // KBKR New. (SA/MC/R)
- 1460 GJOY ON Guelph - 4/24 0311 - Weak with Oldies. (JE-MN)
- 1480 KKQC MN Fossilton - 4/15 0514 - Good with KKQC IDs and NOS music. Now 24 hours. (SA-MB1)
- KSDR SD Watertown - 4/21 0709 - Fair with Good Times, Great Oakes, ad for Hy-Vee weather. (JE-MN)
- 1490 KEKR OR Baker - 4/24 0716 - Programs // to KIBM-1450. (SA/MC/R)
- KEYG WA Grand Coulee - 4/24 0713 - Fair with KEYG Grand Coulee ID in a mess. (SA/MC/R)

0800 TO 1600 HOURS ELT

- 620 KRTK CO Grand Junction - 4/8 1553 - Break from Don and Mike Shoop on The new Talk 6-20. KRTK, plus slogans K-Talk 6-20 and The all-new K-Talk 6-20. Ex. KSTR. (CK-CO4)
- 810 KXOI TX Crane - 4/12 0802 - Female with EE/SS ID. This is KXOI Crime-Odyssey-Midland. Esta es kuh-eypis-oh-ee, Crime-Odyssey-Midland, La Nueva Radio Alabanza and into

more SS religion programs. Think *Radio Albania* is a new slogan. Heard several times previously, but didn't know who it was. (WV-CO)

1470 KNXN AZ Sierra Vista - 4/7 2100 - Local ads, female DJ giving request line number as 459-1470. 2102 canned ID: *The 24 hours-a-day and Kitchen*, KNXN Sierra Vista, the new Hot Mix 1470 and into AC-type music. Fair on peaks with QRM. (WV-CO)

KDHN TX Dimmity - 4/9 0925 - Ag features, two announcers chatting about farm stuff. Ad for local car dealer. Fair, over/under QRM. (WV-CO)

1520 WHOW IL Clinton - 4/5 1544 - With farm news, C&W music and VID. IL #30. (DE-MO)

1600 TO 2400 HOURS EDT

620 WSTN FL St. Petersburg - 4/10 2119 - Good-to-fair mono and Stereo signals, over WRJZ, with local ads, *The Best of The Mad Dog* talk program. Local KKOK-630 off. (EB-MO)

630 WJDB AL Thomassville - 4/9 2016 - Good-to-fair, with WAVU/WBMO/KVMA, with full-data sign-off. Local KKOK off. (EB-MO)

680 WCCN GA Atlanta - 4/17 1931 - Fair-to-good with Atlanta-Milwaukee minor-league hockey. (Milwaukee leading 3-2, go Admirals). Slogan *Sportsradio The Fan* - is there a call sign change here? (DS-TN)

WCAW WV Charleston - 4/1 2100 - With satellite NOS music. Called themselves CHS-680. Sears Sliding seemed to be the only sponsor. Finally got a VID. Called them, and found the number was changed to that of WCHS-590 Charleston. Not bad for 250 waits!! (DE-MO)

700 KSEV TX Tomball - 4/10 2122 - Well over WLW, in very auroral conditions, with sports talk & many Houston-area ads. (DS-TN)

890 WLS IL Chicago - Trivia answer! The mystery station once known as WTR became The Big 89, WLS. This tidbit from an article in the *New York Times* dated June 1, 1974. [Ed-ID]

920 KORK NV Lost Wages - 4/9 2134 - NOS vocals to 2145, then *Las Vegas Stars* baseball pre-game show. Play-by-play at 2200 vs Tacoma Tigers. Occasionally good, but QSB/QRM. (WV-CO)

930 KCCC NM Carlsbad - 4/9 2309 - Latin music on *Variades Musicales* program. Female DJ with requests at 887-5521. Fair with QRM/QSB. (WV-CO)

960 WPRT KY Prestonsburg - 4/17 2000 - Poor, over/under someone with the Atlanta-Milwaukee hockey game // WCCN-680, with end of syndicated oldies show, then ID with 105.5 FM (WXXZ) & a Williamsonburg station. New. Suspect interfering station was unneeded WXXZ-GA. (DS-TN)

1040 KGCR TX Dallas - 4/5 2035 - With UC-type gospel. Superior signal compared to WHO. Very liberal on VID. TX #27. (DE-MO)

1090 KRLL TX Dallas - 4/10 2100 - Legal ID including satellite coordinates! (too many static crashes to copy with the coordinates were). (DS-TN)

1200 WOPR IL Chicago - 4/5 1826 - SS music *Blue Bayou*. Mentions of Chicago. (DE-MO)

1220 KOMC MO Branson - 4/1 1942 - With ad for Osmond Brothers show, then VID. (DE-MO)

1260 WTHH GA East Point - 4/1 2143 - With UC/Gospel, ad for an Atlanta church, then VID. Log shows only 39 nighttime waits! (DE-MO)

1270 WWWT MN Baxter - 4/26 2147 - Fair with ads for a bank and other merchants in Baxter. Into oldies music. New! (SA-MB)

1290 WGBL KY Benton - 4/1 1857 - With many mentions of Marshall county, then ID. (DE-MO)

1360 KGMZ AZ Glendale - 4/8 2100 - SID, then female with sports headlines. Ex: KNNS. Rough, with KHNC/et al. (WV-CO)

1380 KBAK IA Cedar Rapids - 4/28 2205 - Fair-to-poor, with KSCJ/WGEE/KAHS, with C&W music, CJs and local ads. (EB-MO)

1460 KDMT IA Des Moines - 4/7 2246 - With REL programming. Been trying for this one for some time! IA #18. (DE-MO)

1500 KDFN MO Doniphan - 4/5 2012 - With NOS music and VID. A real surprise! (DE-MO)

1570 CHLO ON St. Thomas - 5/2 2122 - In KYCK's null, with Country and slogan *All New Country 1570*. (DE-MN)

DDXD-E

NEWS AND VIEWS

Welcome to Perry Crabill of Winchester, VA, a familiar name, but I believe this is the first time I've received a report from him. Also received a note via Internet from Richard Clark, testing if the message got through - hope to get some reports from you too, Richard!

Paul Mount sent along an item via Prodigy he got from FidoNet about WCEN-1150 in Mount Pleasant, MI being silent. Apparently they are planning to return sometime in the future with daytime programming only.

Jeffrey Less says his log during the KPOW-1260 test was of WNDE rather than WIRE as was reported in Issue #24. See Jeff, I was paying attention!

Don Treilford is looking for the address of WOCN-1450, Miami Beach; he says the P.O. returned the letter he sent to 1779 W. Flagler St.

If anyone has been hearing something strange on 650 the last couple of weeks, you may want to skip ahead to *Other Stuff* to begin your reading.

See if you can find the report of the DXer who bought a new Superadio II. Upcoming deadlines are June 3, July 1, July 29 and September 2.

SPECIAL

540 WDAK GA Columbus - Tom Bryant tells me he read in one of the trades that this station, formerly WSTH with gospel, is now again WDAK with news/talk. He's confirmed it by monitoring. (BH-ID)

600 WFDQ FL Jacksonville - 4/30 - Ex-WOKV, ex-690, these two stations have swapped frequencies. (RB-NC)

690 WOKV FL Jacksonville - 4/30 - Has moved from 600 with sports radio format, frequency swap with WFDQ. (RB-NC)

820 WRFA FL Largo - Is now *Iding* as WYTR (Your Talk Radio) and changed from REL to TLK. (BH-ID)

880 WPIP NC Winston-Salem - Re: *AM Switch* Vol. 61, No. 23, nothing heard yet from this station here in Shelby. Just WCB5 and WJCE with NOS in that direction. (RB-NC)

1070 WKMB NJ Striving - Sign-on 0630 weekdays, 0645 Saturday, 0700 Sunday. Sign-off 1900 all 7 days. (JH-NJ)

1160 WKJT NC Tryon - 4/7 1900 - Apparently some of their announcers don't know the CLS. Taped what I was sure was "You're listening to WJTV, Asheville, WJTV, Tryon, WGCN, Pisgah Forest". (RB-NC)

1210 WGMF PA Philadelphia - 4/18 2100-2200 - Fair with Phillies-Dodgers baseball, nothing but Spanish on 1210 earlier. DX across the band this week was the poorest in recent memory. Had heard new calls earlier, ex-WOGL. Is now sports talk using slogans "The Game" and "The new AM 1210". (TS-MD)

WGMF PA Philadelphia - 5/2 1337-1400 - Ex-WOGL, now all sports. Carries American Sports Network plus local ads and news. (JH-MD)

1270 WTMQ GA Columbus - 4/26 2100 - Silent as WHYD, noted back on with tropical Spanish music and legal ID in English by accented male. Six SS AM's in GA now. (SF-TN)

1360 WAOZ OH Cincinnati - 5/3 0200-0231 - Ex-WSAI, *Radio Ads* kids programming, fairly good through QRM. New address from call to station, 1111 Saint Gregory Street, Cincinnati, 45202, same as WSAI-1530. (JH-MD)

1440 WTRQ OH Warren - 3/27 2120-2130 - Good signal, "101 Strings on WTRQ, the world's most beautiful music". (DE-ON)

WTRQ OH Warren - 3/10 2215-2235 - EZL music, continuous 20-minute wait for ID. WTRQ also around. (RH-NJ)

1530 WSAI OH Cincinnati - 4/15 2250-2300 - Ex-WCKY and Ex-1360. In stereo with "Original Hits" format with program director asking for opinions and suggestions from listeners. Nice to hear a biggy with some music instead of talk. Was this a swap or has the old WCKY passed into history? (DE-ON)

WSAI OH Cincinnati - 4/19 2203 - Florist ad, station ID, message from station manager, address in Cincinnati, MOR oldies music. (CM-ON)

WSAI OH Cincinnati - 5/7 0240-0306 - Ex-WCKY, popular music from the past - "Greatest songs of all times". New address from call to station, 1111 Saint Gregory Street, Cincinnati, 45202, same as WACZ-1360. (HH-MD)

DX TESTS

- 780 WWOL** NC Forest City - 4/4 0300-0330 - Not heard in auroral conditions, just Spanish and weak WBBM (RA-MA)
- 820 WWAM** TN Jasper - 4/2 0030-0200 - Code heard for a few seconds, but nothing else, mostly WBAP and UNID with sports. (DT-JAM) (Don, when I heard WBAP it had Sports Bayline USA - db) ... Not heard under WNYC and WBAP QRM. (RA-MA)
- 830 WWMO** NC Eden - 4/24 0000-0030 - No sign of them, XELK was atop in auroral conditions. (SF-TN)
- 930 WLBI** WI Auburndale - 4/8 0230-0330 - Very good on peaks with varying TTs, OC and infrequent taped IDs. (SF-TN)
- 1230 KJIS** IA Marshalltown - 4/17 0100-0130 - Not heard. (SF-TN)
- 1260 WNRK** DE Newark - 3/27 0000-0230 - Weak on test with infamous siren TT and code IDs, unneeded as previously verified on DX test a few years ago, vertic card received anyway! Thanks DWS! (RA-MA)
- 1260 KFGQ** IA Boone - 3/21 0230-0300 - Not heard, only a strong WSLA. (DT-JAM)
- 1270 WCCG** NC Belmont - 3/27 0300-0400 - Not noted, but first test of 12/20/93 heard and reported with still no verne yet. (RA-MA)
- 1300 WQPM** MN Princeton - 4/11 0130-0200 - Extremely faint code IDs, apparent 1 kHz TT, all too weak to be sure. (JL-OH) ... Possible bits of code, mostly WJFK and others. (DB-DE) ... No luck. (SF-TN)
- 1450 KVOW** WY Riverton - 4/11 0210-0220 - Not heard. (JL-OH)

UNID AND UNID HELP

- 540 WSTH** GA Columbus - Bruce Conti's UNID in Issue 24 with *Solid Gospel* feed is them, I've heard them after CBK signs off at 0200. (EB-MO)
- 580 CHLC** PQ Baie-Comeau - RE: JK-VA's UNID in Issue #24, the only French station I know of on this frequency is CHLC and they are supposed to be AC. (SA-MB) ... This is Jeff Kitzel's UNID in Issue 24, the format and language match this station, according to the 1994 AM Log. (EB-MO)
- 830 R. Paradise** St. Kitts & Nevis - RE: John Hanz' UNID in Issue #24, the only Truly station ever heard up here is St. Kitts. (SA-MB) ... This is John Hanz' UNID in Issue 24, they are TBN, simulcasting the audio from TBN's TV feed // K/TBN Shortwave. The station's transmitter is actually on Nevis, and they're 50000/50000 U1. (EB-MO) ... My UNID from Issue #24 // 17510 - thanks. (JH-NI)
- 900 UNID** Sports talk show, *American Sports Network*, woman with news at 0400, no ID heard due to interference from XEW, nothing in log file. (DT-JAM)
- 900 CJBR** PQ Rimouski - RE: The editor's UNID in Issue #24, the ONLY CBC French station on 900 is CJBR, must be them. (SA-MB) ... The editor's UNID in Issue 24 is this CBC French outlet, they should be the only one running classical music with French announcements. (EB-MO)
- 1050 UNID** 4/21 2345 - Heard Mets baseball "on the Mets Radio Network" // WFAN-660. Was this WEVD or one of the other NY's? (DB-DE)
- 1180 UNID** The editor's UNID in Issue #24 could be Radio Taino or Radio Rebelle, both make it up here on a regular basis. (SA-MB)
- 1510 CKOT** ON Tilsonburg - RE: the editor's UNID in Issue #24, most likely CKOT. They used to use "AM 1-51". Probably still do but...? (SA-MB) ... The editor's UNID from Falls Church, VA is definitely the only remaining Canadian daytime listed as "AM 1-51" in the latest Log, in addition to holding a CP to move to 1200 kHz. (EB-MO)

0000 to 0800 ELT

- 610 WIOD** FL Miami - 4/18 0023 - Good signal with Don & Mike sports talk on "News Talk 610", mention of NFL Draft party at Joe Robbie Stadium on WIOD. (LW-NY)
- 620 WRIJZ** TN Knoxville - 4/11 0555 - Good with religious tune, ID "Joy 62... Christian Family radio... now in our tenth year", call sign, *Radio Bible Hour*. (CM-ON)

- 630 CHLT** PQ Sherbrooke - 5/1 0047 - French talk good and loud over all, including usual WVAL. (DB-DE)
- 700 KSEV** TX Tomball - 4/4 0159 - Difficult under dominant WLW, but able to copy "Super Talk Radio 700 KSEV and 950 KPRC, Houston" during break in talk show. (RB-NC)
- 730 WNAK** PA Nanticoke - 3/11 0718 - EZL music, Kaempfer, Sinatra. (RH-NI)
- 740 KRMK** OK Tulsa - 3/27 0158 - Two guys talking about everything, CBL gone for the night. (RH-NI)
- 840 WCTG** SC Columbia - 4/12 0700 - Fair in WHAS fade with sign-on mentioning "Lighthouse Christian Radio". This is 15 minutes after Columbia's April sunrise, so maybe they aren't interested in being on prior to 0700. If so, could explain my failure to hear them after 0630 during March. (SF-TN)
- 860 WDMG** GA Douglas - 3/11 0700 - ID, ads, news, telephone number given as 912-384-3250, as in NRC log. First timer. (RH-NI)
- 890 WFOA** PA Nicholson - 3/11 0642 - Religious music, WCBS splash. (RH-NI) (Rich, I think you probably had WFRQ-Casttown, PA, a daytime regular here. The 1994 AM Log doesn't show WFOA anymore - db)
- 920 WBAA** IN West Lafayette - 4/1 0013 - Classical music in background, under two others. First timer. (RH-NI)
- 960 CFX** ON Kingston - 4/1 0002 - Oldies, *Duke of Earl*, mixing with WFLR and others. (RH-NI)
- 990 WEEB** NC Southern Pines - 3/20 0325-0332 - OLD, ID at 0332 in part as "... WEEB...", poor interference from UNID Spanish. (DT-JAM)
- 1040 WSGH** NC Lewisville - 4/16 0700 - Fair with first part of sign-on, seconds before local WQBB's sign-on covered it. WSGH's April sunrise is 0645, so possibly another one who doesn't care to be on before 0700. (SF-TN)
- 1070 WNCT** NC Greenville - 3/11 0710 - News on "News Star Net", blasting in. (RH-NI)
- 1150 WDEL** DE Wilmington - 4/18 0025 - Fair signal with discussion about IDs, followed by CNN News. (LW-NY)
- 1160 KSL** UT Salt Lake City - 3/21 0309-0317 - *Road Gang Show*, ads for *Decker Transportation* wanting drivers and a restaurant on Highway 90 in Houston, western weather. CW music fair, UNID interference. (DT-JAM)
- 1200 WAGE** VA Leesburg - 4/11 0106 - Dominating frequency with local news and weather into *Talknet*. ID as "There's only one choice, WAGE 1200, the sound choice". (LW-NY)
- 1220 WKMT** NC Kings Mountain - 3/11 0731 - ID, mention of telephone number, not clear, bad jumble. First timer. (RH-NI)
- 1240 WQCM** MS Gulfport - 3/23 0430-0500 - Sports talk call-in show, ID as "Sports Network 1240 WQCM", poor, over/under probable WINK. (DT-JAM)
- 1250 WPRZ** VA Warrenton - 4/1 0659 - Good with call letters spoken by man, then woman with, "It is 7 o'clock at WPRZ, Warrenton," followed by local weather forecast and into *Insight for Living* program. (RB-NC)
- 1260 WNDI** IN Indianapolis - 4/12 0428 - Heard by "Sleepless in Shelby", "Thanks for listening to the G. Gordon Liddy show ... home of the Pacers, 1260, WNDI". (RB-NC)
- 1290 WTMG** FL Ocala - 3/17 0730 - Legal ID on the half hour. Not much else heard under heavy QRM. (RB-NC)
- WBZT** FL West Palm Beach - 3/17 0727 - Fair with CLs and mention of Delray Beach and West Palm Beach. Ex-WPBG, but new here. (RB-NC)
- WYOW** WV Logan - 3/17 0655 - Strong with local news including talk of some Logan High School students being suspended. (RB-NC)
- 1340 WYOL** IL Joliet - 4/28 0525 - In-out with ID "WYOL, the voice of Joliet" into AC music, *Scarborough Fair*, then gone. New. (MB-IN)
- 1410 WQBO** FL Leesburg - 3/21 0712 - "You're listening to Jeff ? and Mike Hatfield on Lake County's radio station, News Star 1410." Mentions of Route 441 and Leesburg. Way under WPCC QRM. (RB-NC)
- WING** OH Dayton - 3/27 0418-0422 - Sports phone-in talk show, CNN, ID as "WING", interference from UNID with Gospel. (DT-JAM)
- 1420 WACT** AL Tuscaloosa - 4/9 0730 - Good with ID, GOS music. New. (MB-IN)
- WIMS** IN Michigan City - 4/28 0630 - Good with ID, political ad, news. Some WYJS QRM. New. (MB-IN)

- 1430 WLKF FL Lakeland - 3/28 0400-0433 - *Tulizet*, ID in part as "WLKF...", poor with interference from WVEL. (DT-JAM)
- 1440 WADR NY Remsen - 4/26 0515 - Poor, IDing as "WADR-WRENY". Probably using 500 watt PSRA. (JH-NJ)
- 1510 WQMG NC Greensboro - 3/19 0641 - Choir music under WLAC turned out to be this new one where WVIO is normally heard. (RB-NC)
- 1540 WSMI IL Litchfield - 4/9 0735 - Mentions of "FM-106" (I believe?), weather forecast calling for lots of rain and "25 away from 6 o'clock". Legal ID at 0756 then ad for news "...brought to you by Farmers & Merchants Bank and Prairie Farm Dairy". (RB-NC)
- WBTC OH Uhrichsville - 4/9 0719 - Heard faintly with temperatures in surrounding towns under dominant WREI, then "7:19 at WBTC, 1540" followed by promo for a Cleveland Indians baseball game. (RB-NC)
- WBRY TN Woodbury - 4/9 0716 - Call letters heard very weakly among the multitude. (RB-NC)
- 1550 WCLY NC Raleigh - 4/11 0357 - Fair signal dominating frequency with Gospel music. (LW-NY)
- 1570 WTWB FL Auburndale - 4/10 0741 - Reference to nearby Lakeland then woman answering phone with "Good morning - WTWB" as she took a listener's request for a program dedication. (RB-NC)
- WQAI FL Ferdinand Beach - 4/8 0657 - In as a local with ad for bonding agency in Jacksonville then, "You're listening to WQAI, Ferdinand Beach" into C&W mx. (RB-NC)
- 1580 WSRF FL Ft. Lauderdale - 4/3 0156-0208 - OLD (very), events coming up, times of programs "only on WSRF" over/under WCCF. (DT-JAM)
- WSRF FL Ft. Lauderdale - 4/9 0155 - In with FM ID: "Triple shot weekend, 103.5 WSRF, serving Fort Lauderdale, Miami and Palm Beaches", "WSHE, the only rock 'n' roll". First time heard in a while. (LW-NY)
- WCCF FL Punta Gorda - 4/3 0156-0213 - ID as "News Radio WCCF", ad for AM-SW radio, believe it was *Peoples Network* talk show, poor over/under WSRF. (DT-JAM)
- 1590 WEXB FL St. Petersburg - 4/3 0217-0300 - UC, soul, blues, ads for *Amicin*, *Coalition* and *Lane Office of Wayne?*, ID as "Star 16 WEXB", poor-fair with UNID interference. (DT-JAM)
- WONX IL Evanston - 4/9 0205 - Spanish, classical and light SS music, both vocal and instrumental. First timer. (RH-NJ)
- WAKR OH Akron - 4/28 0400 - Fair with news, ID, ad for *Benjamin Moore Paint*. New. (MB-IN)
- WATX TN Algood - 4/7 0659 - Fair under WCSL with full-into sign on then, "stay tuned to 1410, WATX, The Voice of the Cumberland". (RB-NC)
- 0800 to 1600 ELT
- 660 WABC MI Sandusky - 4/19 0825-0830 - Fair in WMAQ splash with "Thunb-area community calendar". (TS-MI)
- 690 WNZK MI Dearborn Heights - 4/19 0830-0845 - Solid in Grand Rapids, no splash, with UNID foreign language (possibly Armenian) program. (TS-MI)
- 1030 WDFL MI Sterling Heights - 4/19 0830-0900 - Good, UNID way under, "Sunrise Sounds" gospel music, traffic and weather. (TS-MI)
- 1070 WTVS WV Beckley - 4/9 0859 - Fair with "Welcome to West Virginia" then descriptions and info regarding various tourist attractions throughout WV. Number 1,000 here in less than 2 years of DXing. (RB-NC) (Congratul - db)
- 1210 WKNX MI Frankenmuth - 4/19 0825-0900 - Fair, UNID way underneath, BBD music on *The Larry Hilton Show*. (TS-MI)
- 1600 TO 2400 ELT
- 590 WAMB PA Uniontown - 0/2 2150 - Storm warnings, school closings and many IDs. 1 kw, new. (DE-ON)
- 640 WENC NC Fayetteville - 4/25 2030 - Very poor IDing as "WENC 64- Fayetteville-Fort Bragg". (JH-NJ)

- 770 WTCN FL North Fort Myers - 3/17 2006-2030 - Talk show, ID in part as "WTCN Fort Myers", poor, interference from HJX. (DT-JAM)
- 830 KBQA MO Kennett - 4/19 1955 - Fair on Quantum Loop with call letters, then *Memories, Lying Eyes*. New. Not audible on longwave. (RB-IN)
- 840 WKTR VA Eadsyville - 4/19 1944 - Gospel program then sign-off by woman. Fair, new. (WPT-DC)
- 890 WQIS MS Laurel - 4/7 2000 - Good in WLS null with ID, UPI news, Chuck Harder's *For the People*. Probably auroral as many northern powerhouses weak or absent tonight. New. (MB-IN)
- 900 WCPA PA Clearfield - 4/9 2005 - Good prior to Penguins - Canadiana hockey game listing sponsors such as *Gulf, Pittsburgh Brewing* (Iron City and I.C. Light), etc. then, "...live on WCPA, Clearfield, your station for sports in north central Pennsylvania". (RB-NC)
- 910 WFNS FL Plant City - 4/9 1956 - Sounding more like a TIS when heard ("Welcome to Florida", etc.). Jerry Starr suggested this could be their weekend format? (RB-NC) (Per a phone call from Ron on 4/30, he says this is actually WFLR, Valdosta, GA - db)
- WFNS FL Plant City - 4/25 2200 - Popped up out of slop, ID "WFNS 910 Tampa-St. Pete", then back into it. (JH-NJ)
- 990 WHOO FL Orlando - 4/7 2228 - Strong with "Unforgettable WHOO, 990 AM at 407 295-3990" taking requests for NOS music. (RB-NC)
- WCMF NY Rochester - 3/10 2205 - ID "WCMF 96 FM and AM, home of rock 'n' roll" into Bo Diddley's *Who Do You Love*. (RH-NJ)
- 1130 WCLW NC Eden - 4/2 2104 - Under WBRR with full-into sign-off including "We hope you've enjoyed our broadcast day here on 'CLW' and mention of Rockingham County. Believe they said transmitter was in Ellendoro". (RB-NC)
- 1199 WANN MD Annapolis - 4/1 1843 - First time (barely) heard with sign-off and full into under WQWO. (RB-NC)
- 1230 WFOA GA Marietta - 4/3 2006 - Female news person in a mess with "From the Washington News Desk, I'm ???" then man saying "All-Christian, WFOA". Also 4/4 0712 man with "Cobb County, WFOA". (RB-NC)
- WSOK GA Savannah - 4/3 2013 - In very briefly with preacher saying "... here in Savannah ..." with other local references. Again 4/6 1851 with full ID. (RB-NC)
- WFAL NC Fayetteville - 4/5 2037 - Spot for local auto dealership, fair-good New. (WPT-DC)
- 1240 WFPX GA Thomaston - 3/15 1925 - Good signal during high school baseball game with "... a good look at the WFPX sign in left field". (RB-NC)
- WHVN NC Charlotte - 4/5 2008 - Spot for store in Lincoln by man. Good, new. (WPT-DC)
- WEKR TN Fayetteville - 3/15 2106 - Number 22 on this graveyard frequency, ID dragged out of mess! Logged as "tentative" several times before this, in. (RB-NC)
- 1250 WDAE FL Tampa - 4/2 2002 - In and out with Orlando Magic/New York Nets basketball game, under WTMA most of time. (RB-NC)
- 1350 WCAD AL Gadsden - 4/7 1900 - Briefly on top with ID, local news, then gone. New. (MB-IN)
- 1380 WAFS KY Millington - 4/1 2000 - Good with GOS music, ID, local news, ad for *Sears*. New. (MB-IN)
- 1400 WIRA FL Ft. Pierce - 3/26 2056-2125 - Talk show, ID as "WIRA", poor, interference from WFTL. (DT-JAM)
- 1410 WPOP CT Hartford - 4/7 2300 - Logged once again for first time in 2 years. Those of us who were at Enfield last September can say, "I've been there!", in. (RB-NC)
- WDOE NY Dunkirk - 4/7 2245 - Under several others heard "... for WDOE weather, I'm Scott?" during excellent opening to north. (RB-NC)
- WSCW WV South Charleston - 4/3 1939 - Good with full-into sign-off, instructions to tune to 100.9 FM (WJVP?) then gospel song. (RB-NC)
- 1430 WYAM PA Altoona - 3/7 2013 - Fair with intro to "WYAM Sports", new. (DE-ON)
- 1470 WMMW CT Meriden - 4/7 2153 - Rising up from nowhere to "as local" strength with "Standust 1470". (RB-NC)
- WMAW CT Meriden - 4/28 2100 - Instrumental music, ID by man then news Good, #22 on this frequency. New. (WPT-DC)

- 1610 WAKW PA Allentown - 4/7 2044 - CW music, fair-good-excellent, ex-W5AN. (WPT-DC)
 WAKW PA Allentown - 4/7 2142 - Strong signal caught my ear with a car dealer in
 Lehigh Valley (which I know is in PA). ID and shortly covered by WMMW (RB-
 NC)
 1480 WYZE GA Atlanta - 3/29 2115-2135 - COS, ID in part as "1480 WYZE", poor with UNID
 interference. (DT-JAM)
 1520 WEXY FL Wilton Manors - 4/1 2145-2200 - REL, preacher, ads at 2100 for appliance
 store, Gold Bond Medication Powder and carpet store, ID as "24 hours a day 1520,
 WEXY", poor (DT-JAM)
 1550 CBE ON Windsor - 4/1 2145-2200 - Music, weather including Algonquin region,
 announced as "CBC Weather", poor, first Canadian heard here! (DT-JAM)
 1560 WOKR AL Oxford - 4/5 2015 - ID by man just before power-down. #30 on this frequency.
 Pair, new. (WPT-DC)
 WPRC MD Morningside - 4/9 1932 - In with mention of Sunday programming Sales
 Talk, Desk Warner, Computer American, and Dinner Hour, "on Business Radio
 Network, 1580". (LW-NY)
 WPGC MD Morningside - 4/29 2306 - ID as "1580 Business Radio". (JW-MA) Also 4/30
 1930-1935 - in very well with strong ID "WPGC news tune 7:34". (JW-NY)
 WONZ NJ Hammonton - 4/30 1939-2230 - Phillies baseball in OK for a good while. (JW-
 NY)
 WULJ TN Shelbyville - 3/15 1858 - In a mess with sign-off; partial info, no SSB.
 (RB-NC)
 1590 WGY AL Atmore - 4/2 2353-0023 - UC, Say You Will, Jackie Wilson mention, ID in part
 "WGY",... poor with UNID interference. (DT-JAM)

OTHER STUFF

650 TIS NC Camp Lejeune - 5/2 - Per a phone call from Charles Taylor in Grifton, NC, I
 was alerted to a government radio station operating on 650 kHz (possibly) in my
 area on 5/1. Charlie first noted the station on 4/30 with a test message by a man
 and tones with loop towards my area. On tune in today, I noted the same with
 tones varying from 20-30 seconds. Noted on truck radio with strong signal around
 Camp Lejeune and decreasing away from base. My loop bearing is towards Camp
 Lejeune. Harmonics noted on 1300 and 1950 plus spurs on several frequencies.
 Heard today at 1200, 1430 and 1600. 5/3 - There are two stations operating from
 Camp Lejeune. Both are PSYOPS units (1 Navy and 1 Army) participating in
 Exercise Agile Provider, and will operational daily through May 9 from roughly
 0700-1900. Due to potential QRM to civilian stations nighttime ops are not
 permitted. They welcome reports to: F.T.R.G. (ATTN: N-3), 2555 Amphibious Dr.,
 Naval Amphibious Base Little Creek, Norfolk, VA 23521. I would suggest a
 PRC/PFC and return postage accompany any report. Power varies from 5 kw up to
 50 kw. They're almost continuously transmitting, so possibly sunrise or sunset
 may provide reception. (MTH-NC)

740 WCTC NJ New Brunswick - Alan Ng had to be on Rt. 27/Lincoln Highway or better yet
 on Veronica Avenue which goes right past station and its huge tower (JH-NJ)

1060 TIS FL Tampa - MacDill Air Force Base "Airfest '94" TIS activated for the second year
 for events 3/25-3/27; however this year they forgot to turn the transmitter off until
 sometime during local day 4/11. Consisted of a male voice with nearly two-minute
 cart, mentioning it was operated by the fixed Air Unit. Some local press reports say
 this was the final Airfest (just as they said last year), while others say it may
 continue. (TK-FL)

1610 TIS FL Crystal River - Radio Monitor future TIS will be activated in a few weeks,
 pending altering of recorder to air 10-minute cart instead of three, operated by the
 Crystal River National Wildlife Refuge. Their desire is to have singer Jimmy Buffet
 record a six-minute portion of the tape, dedicated to biological info about manatees.
 The same St. Petersburg Times article on 4/13 also mentioned that the Crystal River
 Chamber of Commerce has been allocated \$8,750 for a TIS (no frequency known yet,
 per my call same day to the Chamber). Wonder if former station is the reported
 planned TIS on 1610 for nearby Chassalowitzka National Wildlife Refuge?
 (TK-FL) (Put that one in your spell checker - db)

- 1610 KID324 WV Seneca Rocks - 4/6 1100 - On WV Routes 28/55, near junction with U.S.
 Route 33. Women's voice on tape loop giving sightseeing and camping
 information for the Spruce Knob/Seneca Rocks National Recreation Area. Audio
 spatters at times despite strong RF signal. (PC-VA)
 1610 TIS UNID - Regarding Laurence Keatley's UNID airport log, definitely not Tampa
 International, as it runs a male voice, and does not mention specific airlines.
 (TK-FL)
 1625 8W004 EU-NY had an UNID in Issue #13; this is 100% for sure a net buoy as listed in the
 Grote Shortwave Directory. (SA-MB)
 1630 8W108 BC-NH had an UNID in Issue #3, is definitely a fishing net buoy or beacon per the
 Grote Shortwave Directory. (SA-MB)

REPORTERS

- RA-MA Ray Armada, Accubnet, MA: HQ-180A, SX-122, Radio West and Palomar loops
 SA-MB Shawn Axelrod, Winnipeg, MB: (Who now needs only DE for 50 states - ironic, eh? -
 db)
 RB-NC Ron Bailey (AA6S), Shelby, NC: Icom IC-765, 7 beverages
 EB-MO Eric Buemanan (N0UJH), Hazelwood, MO:
 MB-IN Mark Burns, Terre Haute, IN: Drake R-9, Quantum loop, 80' longwire
 PC-VA Perry F. Cabill, Jr., (W3HQX), Winchester, VA:
 DE-ON Dave Evans, Cornwall, ON: Sony SRR-A1, Superadio II (Bought new at Fay's Drugs,
 Malone, NY - \$35.88)
 SE-TN Steve Francis, Alcoa, TN: Realistic TRF
 BH-ID1 Bill Hale, Meridian ID: From Doug Smith via Internet
 BH-ID2 Bill Hale, Meridian ID: From Fido-Net
 JH-IN John Hantz, Old Bridge, NJ: Sony 2010, Alpha-delta sloper
 MH-NC Mike Hardesty, Jacksonville, NC:
 RH-NJ Rich Harrison, Hewitt, NJ: Grundig Satellit 3400, SM-2, Select-a-tenna
 HH-MD Hank Holbrook, Dunkirk, MD: SP-600, Colegrove loop
 TK-FL Terry L. Krueger, Clearwater, FL:
 JL-OH Jeffrey Lees, 223 Pasadena, Toledo, OH 43612: Panasonic RF5000A
 CM-ON Chris Meloche, London, ON: Yaesu FRG-8800, 4' loop, 30db amp, GE Superadio II
 TS-MI Tom Sanders, Grand Rapids, MI: JVC Car radio
 TS-MI2 Tom Sanders, Davison, MI: Sony 2010
 WPT-DC Bill Townshend, Washington, DC: Sony ICF-2010
 DT-JAM Don Treloff, St. Annas Bay, Jamaica:
 JW-MA Jim Weber, on the road in Springfield, MA: Delco car radio
 JW-NJ Jim Weber, on Route 78 in central NJ: Delco car radio
 LW-NY Leslie Wood, North Merrick, LI, NY: Superadio
 DB-DE Dave Braun, Wyoming, DE: R-5000, Quantum loop

ABBREVIATIONS AND SPECIAL SYMBOLS USED IN DDXD

// parallel to :00 on the hour A.C. adult contemporary A.P. Associated Press B.R.D. big band B.R.N. Business
 Radio Net C&W. country & western C.R.K. contemporary Christian radio C.R.K. contemporary hit radio
 C.R.K. code ID C.I. call letter E.Z.L. easy listening E.E. English F.F. French G.O.S. gospel I.R.N. Interstate Radio Net
 L.S.R. local sunrise L.S.S. local sunset M.B. Major League Baseball N.B.A. National Basketball Assn
 N.H.L. National Hockey League N.P.R. National Public Radio O.C. open carrier P.O.L. political P.R.A. pre-
 sunrise authority P.S.A. post-sunset authority Q.R.N. man-made interference Q.R.N. natural interference
 O.T.R. location R.E.L. religious R.O.K. rock 'n' roll R.S. regular schedule S.S. sidestanding ID S.S. sunrise
 skip S.S. sunrise skip S.S. sunrise skip T.C. time check T.T. test tones U.C. urban
 contemporary U.P. United Press International

98	92	96	100	104	708
530	600	700	800	1000	1200
1400	1600				
AM					

AM 1420
 WBSM

International DX Digest

Jim Renfrew
61 Wilcox Street
Rochester, NY 14607-3832
Foreign DX Catches. Times are UTC, for EDT, subtract 5 hrs.

First off, our congratulations to John H. Bryant, recently named as "North American SW Broadcast DX'er of the Year" by ANARC. We, of course, know John for his occasional loggings in DXD, which are only the tip of the iceberg of his craft. Harry Weatherly, known to friends of DX Australia, was named as "International DX'er of the Year". Darryl Symington was named as "North American Specialty DX'er of the Year". ANARC is the Association of North American Radio Clubs, of which the NRC is a member; and Paul Sweazinger is on its board.

A special welcome to first time reporter Herb Shatz. We look forward to getting more of your reports. Once again, Ben Dangerfield uses the same equipment to report things I never seem to be able to hear! César Obijo sent in his Holy Week loggings, when many Dominican stations are off the air.

A reminder to all who reprint information and loggings from this column: please give credit to original sources as shown after each item. I've noticed that some items printed here later appear in other publications with only "NRC" credited. This is unfair to the individuals and newsletter editors who first reported the information. I would also suggest that whenever possible the date of the original item be noted when you reprint it elsewhere. I see too many out-of-date items in circulation among our various newsletters. Thanks.

Jim

TRANS-ATLANTIC DX

- 549 ALGERIA Les Trembles, MAR 26 0400 - Strong signal with woman in AA followed by Algerian pop music with orchestra and vocals, into Koran at 0415. [Dangerfield-PA]
621 CANARY ISLANDS Santa Cruz, APR 10 0120 - SS talk, poor - only low- latitude TA's were noted on the low end of the dial. [Connelly-MA]
693 ENGLAND Droitwich etc., MAR 29 0445 - BBC talk program with man and woman, fair signal. This one supposed to go 24 hours on APR 1. [Dangerfield-PA]
693 AZORES Terceira, MAR 29 0455 - On top of BBC with instrumental orchestra music. These two stations were taking turns for about an hour. [Dangerfield-PA]
792 FRANCE Rennes, MAR 29 0502 - Fair signal with man and woman giving (I think) the news. France and England had turned their clocks ahead the previous weekend, thus making it an hour sooner to pick up their early morning signals since we didn't advance our clocks until the following week. [Dangerfield-PA]
837 FRANCE Nancy, MAR 29 0505 - Pop song by a woman, fair signal and // to 864. [Dangerfield-PA]
855 SPAIN Murcia etc., MAR 31 0525 - Good with SS-type music and female vocals, and a station below them at almost equal strength. [Dangerfield-PA] APR 9 0502 - SS talk, stopped by WHDH. [Connelly-MA]
855 ROMANIA Bucharest, MAR 0330 - Overrode the 55 stations with a strong signal, with a man, and later a woman, speaking slowly in Romanian. These two stations alternated until about 0400. I also noted a weak signal on 756 kHz. [Dangerfield-PA]
864 FRANCE Paris, MAR 29 0505 - Woman singing // to 857. [Dangerfield-PA]
891 unID, APR 9 0214 - rock music, PP or SS talk poor, so maybe Portugal instead of Algeria. [Connelly-MA] (Possibly Cuba, see logging below - Jim)
909 ENGLAND synchros, MAR 29 0440 - Heard with talk program // 693. [Dangerfield-PA]
1044 SPAIN San Sebastian, MAR 26 0250 - In well with 16 kW over 300 kW Morocco. Had instrumental pop music and a woman announcer, better yet at 0445. [Dangerfield-PA]
1098 CANARY ISLANDS // SPAIN, APR 24 0521 - man & woman in SS, good. [Connelly-MA]
1107 SPAIN RNE-5 synchros, MAR 30 0415 - Nice signal, man and woman (what would we do without them?). Wish I could tell what station I'm hearing. [Dangerfield-PA] (Your only chance for a local ID is during local ad blocks heard occasionally heard before the hour and half-hour, and - by the way - that man and woman are heard on stations all over the world - Jim)
1107 SPAIN, APR 24 0514 - SS talk, jazz, poor // 1143, 1152. [Connelly-MA]
1107 EGYPT Bahra, APR 9 0207 - AA male Koranic chant; fair to good through slop. APR 10 0206 - Koranic a cappella vocal; good, hitting 59-20 on peaks (about equal to adjacent WWWE - 1100 & WBST/WHIM - 1110). Egypt completely dominated over Spain, apparently due to dawn-enhancement of the former. [Connelly-MA]

- 1125 unID (Bulgaria or Russia probable), APR 10 0253 - classical piano music; occasionally breaking over heavy WBRR slop. [Connelly-MA]
1143 SPAIN, APR 24 0512 - SS talk, jazz, poor // 1107, 1152. [Connelly-MA]
1152 SPAIN, APR 24 0510 - man & woman in SS, then jazz music; fair. // 1107, 1143. [Connelly-MA]
1206 FRANCE Bordeaux, APR 7 0417 - FF vocal, poor to fair. [Connelly-MA]
1215 RUSSIA Bolshakovo, APR 10 0300 - I was surprised to find a huge OC here with only background evidence of the usual UK & Spain stations. Then, the "Midnight in Moscow" chimes came on, then time pips and talk at 0300 sign-on. This was a complete surprise! [Connelly-MA]
1251 LIBYA Tripoli, APR 6 0343 - big OC, APR 9 0204 - female AA vocal at low audio level on monster carrier; other stations (likely Hungary & Portugal) rumbling around underneath. APR 19 0323 - AA female vocal & talk at low audio level; big carrier. [Connelly-MA]
1269 unID's, APR 9 0201 - stew of signals here with apparent blend of Slav / CG / SS talk. [Connelly-MA]
1305 SPAIN / ? APR 24 0506 - mix. & SS talk (not sure if both audios were from same station). Bad low-pitched growl was present. [Connelly-MA]
1314 SPAIN, APR 24 0505 - dominant with SS news by woman; slopped by CKEC - 1320. [Connelly-MA]
1332 ITALY Rome et al., APR 7 0413 - news by woman in II // 1575; fair through WRCA slop. [Connelly-MA]
1359 SPAIN Arganda, APR 24 0500 - pipe, SS news by woman; splittable from local WLYN - 1360. [Connelly-MA]
1375 ST. PIERRE ET MIQUELON, APR 15 0332 - woman in FF; fair to good. [Connelly-MA]
1377 FRANCE Lille, MAR 31 0502 - Good signal with a choir and possibly a religious service. Man in PP at 0504. The choir sounded like the one at Notre Dame. [Dangerfield-PA] (During Holy Week - Jim)
1386 RUSSIA Bolshakovo, APR 9 0157 - bits of classical music. APR 10 0304 - fair with woman in RR. [Connelly-MA]
1422 GERMANY Heusweiler, MAR 31 0455 - In briefly with instrumental music, man in CG at 0500, news? [Dangerfield-PA]
1467 FRANCE Roumoules, APR 7 0357 - religious choral music; fair to good (but choppy fades), APR 7 0410 - good with woman in CG. APR 22 0402 - religious music; in slop. [Connelly-MA]
1476 unID, APR 9 0155 - two carriers (SAH about 2 Hz) - bits of AA-sounding talk, so maybe UAE on dawn-enhancement. [Connelly-MA]
1494 RUSSIA (tentative), APR 9 0153 - bits of Slav-sounding talk, also a test-tone was noted. [Connelly-MA]
1503 POLAND (i), APR 10 0308 - carrier, possible Slav talk in WTOP - 1500 & WSSH - 1510 slop. [Connelly-MA]
1503 SPAIN, APR 24 0451 - music, SS talk; poor through WSSH-1510 / WTOP-1500 slop. [Connelly-MA]
1512 BELGIUM Wolvenstem, APR 7 0409 - pop rock music; in bad WSSH slop. [Connelly-MA]
1512 SAUDI ARABIA Jeddah, APR 9 0148 - AA a cappella vocals; to good peaks with WSSH slop nulls with the RTL-2 loop. WSSH is one local pest that seems to null better with the loop than with the phased wires. [Connelly-MA]
1521 SAUDI ARABIA Duba, APR 10 0307 - female AA a cappella vocal: 59-50 (!), like a local, completely mauling WWKB. APR 19 0258 - AA music fair to good; few other TA's noted at the time. [Connelly-MA]
1521 SPAIN, APR 24 0448 - man in SS; to fair peaks through residual slop from phased WWKB. [Connelly-MA]
1530 VATICAN, APR 2 0158 - just under a strong WCKY with a choir, followed by interval signal and a woman speaking. [Dangerfield-PA]
1530 SAO TOME & PRINCEPE, APR 22 0412 - VOA about equal to WCKY with African Service in EE // 7405 - end of news followed by "Newslime" with Neil Curry; in-depth reportage of Sept attacks on clinic in Gorazde, then items about Rwanda. Bits of a third station (presumably Vatican) way off in the background. On this generally mediocre DX night Sao Tome was actually one of the best TA's! APR 24 0420 - VOA noted with EE talk about the Muslim religion and culture around the world. Signal poor behind WSAI (ex-WCKY) nostalgia music show. Faded away by 0430. [Connelly-MA]
1548 ENGLAND, APR 9 0150 - man in EE; poor. APR 24 0434 - fair with EE news by woman. [Connelly-MA]

1557 FRANCE Nice, MAR 31 0505 - Fair signal with a soprano and a woman in FF at 0508. Again on APR 3 0500 with a man talking before a male vocal. [Dangerfield PA] APR 24 0435 - pop rock; poor in WQEW stop. [Connolly-MA]

1575 ITALY Genova et al., APR 7 0407 - news by woman in II // 1332; good, atop Spain. [Connolly-MA]

1575 SPAIN, APR 24 0440 - fast SS news // 1584; to fair peaks. [Connolly-MA]

1584 SPAIN, APR 24 0438 - good with man & woman in SS. There was considerable radio with audio delays up to a full second (?) between the various co-channel stations on the network. [Connolly-MA] (No, Mark, it's because as you get older one of your ears gets out of phase with the other! - Jim)

1611 VAICAN, APR 2 0340 - Very strong with woman in RR. How do these Vatican stations get out so well? Especially this 15 kW one here? [Dangerfield-PA] APR 6 0335 - hymn by men's choir; fair to good (stronger than Anguilla - 1610). APR 7 0402 - man in Slavonic-sounding language mentioning Jesus; good. [Connolly-MA] APR 14 0350 - Poor, woman in Slavonic language, interval signal at 0400, then more static (possibly Ukrainian), first time in Winnipeg! [Axelrod MB] (See STATION NEWS below Jim)

Ben speaks: "The DX continues. On the last 4 nights I have noted 43, 59, 34 and 40 TA signals respectively. This includes some weak hets, of course, but also quite a bit of audio and some pretty good signals. I keep trying to relate the better TA cycles with the full moon as some of the oldtimers did, and it does seem that over the past four months this did the in, plus or minus 10 days to a week. However, some of my best loggings were not even close to the full moon, so there you go! (maximum/minimum A-indices follow a 28 day cycle, so it's reasonable to expect that TAs might be in synch with the full moon during the course of a season - and out of synch the next - Jim)

Shawn speaks: "A TA at home unheard of, but there two nights in a row. Only TA to make audio, though hets on 1008, 1035, 1107, 1134, 1314 and 1602. This season isn't over yet!"

Mark speaks: "Conditions have certainly deteriorated, especially to Europe. Still, the spring season can still yield good DX on trans-equatorial paths (e.g. deep Africa, Brazil) on auroral nights when good receiver / antenna / location combinations are used ... High band dawn-enhanced openings seem to be the bright spot during the otherwise mediocre conditions that characterize this time of the year. Those on the east coast of the USA & Canada should look for high-band openings into Spain around 0400 to 0500 UTC. Some of these signals can rise up from the domestic slop to good levels quickly and unexpectedly (and later they can disappear just as fast)."

PAN-AMERICAN DX

530 COSTA RICA R. Rumbó, Cartago, APR 3 0355 - With a program of ranchera. [Objio-DR]

533 TURKS & CAICOS, MAR 6 & MAR 8 heard here, then back to 535 on MAR 14. [Meloché-ON]

535 TURKS & CAICOS / GRENADA, APR 10 0126 - T&C with SS talk over apparent EE religion from Grenada. [There was a growl (beat note) of about 50 Hz between the two stations] [Connolly-MA]

540 MEXICO XEW Monterrey APR 1 0409 - Announcing Mexican singers, then a song, probably entitled "Te casaste" (You Got Married) because of the repetition of the words. I ded as "WVA" at 0409, then more Mexican music. [Objio-DR]

550 VENEZUELA R. Mundial, Caracas, APR 1 0402 - IDing as "VYKE Mundial" at the end of a Dominican merengue, then ID, and after that a typical Venezuelan song criticizing government corruption with joropo music and a harp "Oiga, Señor Presidente" (Listen, Mr. President) beautiful. [Objio-DR]

555 ST. KITTS & NEVIS Basseterre ZIZ, APR 10 0128 - political speech by man in Caribbean EE; to fair peaks. [Connolly-MA]

560 JAMAICA - Probably JBC with typical accent. A very long talk by a woman, very good, but did not wish to wait for an ID. I've heard them before. [Objio-DR]

600 BRASIL R. Caracha, Porto Alegre APR 1 0413 - Surprised to hear Portuguese here, suspected Brazil, until I heard "Gaucha" at 0413, then no doubt. [Objio-DR] (Nice - Jim)

610 TRINIDAD & TOBAGO?, APR 25 0400 - fair to poor with WZZK/WDAF with contemporary music (mostly from the 60s, 70s and 80s), someone with English announcements. Quality of studio-transmitter link (likely a standard phone line) lower than those in use here in the United States (digital phone lines and microwave are most commonly used for studio-transmitter links in the U.S.). Best guess may be Port of Spain, Trinidad and Tobago. It seems to have an AC/NO5 format, and IDs as "?? National Radio 610" (couldn't get the first word) by slightly accented male and female announcers. The WRTVH '94 says the station in Port of Spain, Trinidad and Tobago IDs as "NBS Radio 610", so there may be a

possibility that NBS-Trinidad and Tobago may have added "National Radio" to their name. This is the second night in a row that this foreign station (likely a Caribbean station) has been heard here on 610. I'm 95% sure it's Trinidad and Tobago, but in reviewing the tape, the three letters said before "National Radio 610" sounded like RTT, but I may be confusing it with NBS, the occupant of the 610 slot in Port of Spain. A tentative report will be sent shortly. International DXpers may contact me at dtkx13a@prodigy.com. [Buene-man-MO]

610 HONDURAS Radio America HRLP Tegucigalpa, APR 26 0353 - good to fair over WDAF/tentative Trinidad and Tobago with information programming promo, "Radio America" IDs, local ads in SS, at times in at semi-local strength! HRLP-630 also in. Somehow, I've stumbled upon good conditions to Central America and the Caribbean! [Buene-man-MO]

630 MEXICO La Estación de las Noticias XEIB Monterrey NL, APR 13 0413 - good to fair over WAVU/others with local ads and local, national and world news in SS. (English translation: "The News Station") Local XOK 630 off. [Buene-man-MO]

630 HONDURAS Radio America HRLP La Ceiba, APR 25 0241 - good to fair over XEIB with "Radio America Deportiva" promo, another station promo, "Radio America" ID, then noticas. WRTVH '94 lists three stations on 630 relaying HRLP-610 Tegucigalpa (all with 1 kW). La Ceiba is the closest one as this city is on the northern coast, facing North America so this is the most likely of the three. The other two relays on 630 are HRLP3 Choluteca, and HRLP13 San Lorenzo. Local KJSL not yet on. [Buene-man-MO]

650 COLOMBIA Antena 2, Bogotá, APR 8 0550 - Good, with talk by man and woman, mention "Antena Dos de Colombia", more SS chatter. [Meloché-ON]

650 MEXICO XEINT Los Mochis SIN, APR 14 1157 - Mexican music; canned ID at 1159.50 "Ud escuchó XEINT, La Sesenta y cinco. La ... desde Callejón Sinaloa (should be Calle Sinaloa?) 442. Poniendo en Los Mochis, Sinaloa. 650 kHz en la banda de Amplitud Modulada, mi waits en antena, orgullosamente regional" and into news, fair signal. [Wilkins CO]

694 CUBA R. Progreso, Jovellanos, MAR 20 2330 - Noted strong at this time and throughout the evening. Was back on 690 the next day. [Dangerfield-PA]

700 COLOMBIA CARACOL, Cali, APR 9 0948 - Fair good with man in SS with talk, and many IDs, heard through WLV. [Meloché-ON]

720 VENEZUELA R. Oriente, Maracaibo, APR 1 0542 - IDing, with romantic music. [Objio-DR]

APR 11 0944 - Good with SS pops, "R. Oriente" ID, tunecheck at 0947. [Meloché-ON]

730 UNID, APR 10 0130 - maybe Trinidad here with Carib. EE sounding talk mixed with CKAC groundwave during semi-auroral low-band conditions. [Connolly-MA]

740 UNID, APR 3 0852 - From 0852, poor with WIAC (San Jose, Puerto Rico) and CHCM (Marystown, Newfoundland) QRM. Spanish, Latin ballads played by a male announcer giving T&Cs. Cuckoo-clock sounds between selections with several mentions of "Super-Elusive" - I've heard this before. WIAC dominated at 0900, so I had no chance for an ID. Probably Colombia, but strange that I was getting CHCM drifting in on the signal. The Kiva was aimed almost at right angles to CHCM! [Funkenhauer-ON] (In 1994 WRTVH R. Maracaibo is shown as part of Sistema Super Radio - Jim)

750 COLOMBIA CARACOL, APR 1 0426 - Very good ID as Caracol and "R. Noticias", the time was given as 11:25 at 0426. [Objio-DR]

750 JAMAICA RIR Galna, APR 18 0210-0233 - EZL music with listener phone-ins to male DJ Religious program til 0303, then local news and fade-out at 0307. Numerous IDs throughout, and mostly excellent signal. [Shatz-NY]

760 COLOMBIA RCM Barranquilla, APR 2 1251 - With news, when I ded [Objio-DR]

760 MEXICO XEINM, Cd Manant, APR 8 0302 Heard man in QRM with "XEPNM" ... emisora ... Cd. Manant. About 90% sure of call, not so sure of QTH, there is a Cd Manant in Tamaulipas. Mix with KXOB and another XE or two. [Wilkins-CO]

770 UNID, APR 8 1200 - Heard "F-S Tropical" (or similar) in QRM. Maybe a slogan, maybe nothing at all, into news at 1200. 770 is getting kind of messy these days. [Wilkins-CO]

770 WXY?, APR 12 0277 - Mexican music, male announcer, sounds Mexican, but at 0302 heard "Doble u equis eh pola" [WXY?] clearly. Nothing fits; may have been just a mention of a station in network during news break. [Wilkins-CO]

780 VENEZUELA R. Coro, APR 1 - With time as 11:20 at the end of a song entitled "Cuando Florezcan Las Anupobas" (When Poppies Bloom). [Objio-DR]

790 VENEZUELA San Cristobal VVOD, APR 19 0230 - rustic-style SS vocal & guitar then talk "Ecos del Torbes presenta ..." dominant. I was surprised at getting this in the clear instead of usual Coro. [Connolly-MA] (Yes, this old stand by is rarely heard these days - Jim)

790 MEXICO XEIPC Chihuahua CHIL, APR 13 0400 - "En la Cd. de Chihuahua, esta es XEIPC, R. Ranchito, 790 kHz. 5000 watts de potencia", then into PSA. Generally fair, not much QRM. [Wilkins-CO]

- 800 NETHERLANDS ANTILLES PIB Bonaire, APR 2 0325 - Fair with religious program and prayers in EE. TWIR ID. [Axelrod MB]
- 830 MEXICO XEVO Navolato SIN, APR 8 1204 - Ad for "Supermercado DN" en Costa Rica, Sinaloa; "La Grande de Sinaloa" slogans, contest promo with Box 120 mentioned (as in WRTT), generally fair, not much QRM. [Wilkins-CO]
- 830 ST. KITTS & NEVIS Basseterre, APR 10 0117 - talk about 430 stations on the network preaching the gospel. Loud (S9+20) // 7510. APR 19 0212 - excellent with religious C&W vocal, then preaching by southern-accented woman; // 7510 (S9+20) // 7510 [Connolly-MA]
- 840 MEXICO XEXXX Tamazula, MAR 24 0350 - fair with Mexican ballad music, Triple X ID, new! [Axelrod-MB]
- 850 COLOMBIA R. Remedios, Bogota, APR 3 0057 - (Dung with "HJC 850 Santa Fe de Bogota, Caracol", very good with ads. [Objio-DR]
- 850 PUERTO RICO WABA, Aguadilla, APR 2 1242 - Like a local, relaying WKAQ-580 R. Ralel newscast, which could not be heard on 580, naturally it is in San Juan (farther than Aguadilla), so only R. Fe 580, Maricao. [Objio-DR]
- 860 NETHERLANDS ANTILLES R. Curon, Willemstad, Curacao, APR 2 1253 - In Papament, only heard when R. Clarin is off [Objio-DR]
- 860 VENEZUELA R. Enlace 8-60, Valle de Pascua, APR 3 0100 - Ads and typical Venezuelan music, joropo with harp at 0100 [Objio-DR]
- 880 VENEZUELA "Paraguana 8-80", APR 1 1615 - New station on the Paraguana peninsula, in the Coro area, very good with news about the beaches. [Objio-DR]
- 885 MONTSERRAT Plymouth ZJB, APR 10 0112 - excited Caribbean talk spoken by man & woman; weak. [Connolly-MA]
- 890 XENX Culiacan SIN, APR 7 1207 - Probable with tuba music, typical of Mexico's west coast, male announcer with MST or PDT timechecks, spot for Iondrenia Buena Vista. Today, and on other occasions, have heard "La Fiesta Mexicana" mentioned, so I think it is their slogan, not "Fiesta Latina" that is listed. Over/under KYOZ, also SS. [Wilkins-CO]
- 891 CUBA MAR 31 0030 - Not sure which one, but very strong on this frequency from this time on. Blocked Algeria. Also noted but not as strong on APR 3 0200-0400. What kind of standards do they have in Cuba? [Dangerfield PA] APR 6 0231 - Hearing WLS with "R. Progreso", man and woman announcers, light vocals, good signal, even this far west. [Wilkins-CO]
- 895 ST. KITTS & NEVIS Charlestown, APR 10 0154 - reggae & calypso music; good to excellent [Connolly-MA]
- 900 VENEZUELA Mara Ritmo 900, APR 2 0450 - ID and pop music. [Objio-DR]
- 910 PUERTO RICO WPRP, Ponce, APR 7 0107 - Weak, with baseball game. [Objio-DR]
- 920 MEXICO XETAA Torredon COAH, APR 6 1133 - Canned ID; "XET Doble A, Radio Éxitos, energía pura. 920 kHz en amplitud modulada; cínco mil watts de potencia, Torreon, Coahuila, desde la Comarca Fuera ("from the Outer Limits")", then into U. S. rock song, fair over/under QRM. [Wilkins-CO]
- 940 VENEZUELA Super Radio Punto Fijo, APR 1 1803 - With news about "vacionistas" travelling during Holy Week. [Objio-DR]
- 950 VENEZUELA R. Informativa, Caracas, APR 3 0110 - Many, many IDs, 8:09 time check, news, local R. Popular off. [Objio-DR]
- 960 COLOMBIA Maganay HJOT, APR 3 0448 - With ads for Avianca, Seguros Nacional. [Objio-DR] APR 19 0310 - several CARACOL mentions, SS telelat, good over CHNS / others. [Connolly-MA]
- 960 ARUBA R. Victoria, Oranjestad, APR 2 1320 - With programs in EE. [Objio-DR]
- 990 COLOMBIA HJDB Medellin, APR 8 0623 - Poor, RCN network, political program // 770 and 1020, new! [Axelrod-MB] (According to station, this is now 100 kW - Jim)
- 1000 COLOMBIA Cartagena HJAO, APR 19 0243 - RCN mention, SS talk about Colombian politics. [Connolly-MA]
- 1020 COLOMBIA HJPO Pereira, APR 8 0524 - Good with RCN political program, // 770, new! [Axelrod-MB]
- 1020 TURKS & CAICOS, APR 19 0245 - black gospel vocal, then ID "Superpower 1020, Caribbean Christer Radio from Grand Turk in the British West Indies", well over KDKA & others. [Connolly-MA]
- 1030 PUERTO RICO WOSO "El Oso" (The Bear), San Juan, APR 2 0444 - Surprised to hear this station so strong and all in EE, despite local R. Comercial 1010, though R. Central 1040 off. Many ads for Sears and other companies. I did not know who they were (I they IDed at 0444. Heard them again APR 3 0112, very good, increase of power? [Objio-DR]
- 1070 VENEZUELA Mundial Zulia, Maracaibo, APR 3 0529 - With news and ID [Objio-DR]

- 1100 COLOMBIA CARACOL Barranquilla, APR 2 0438 - With news. [Objio-DR]
- 1101 unID, APR 10 0243 - Net against WWWE. I think that this is the Colombian noted by others. [Connolly-MA]
- 1160 BERMUDA Hamilton VSB3, APR 19 0248 - "On the Sunny Side of the Street" by Pete Fountain played on BBC big-band jazz show // 5975. Sometimes atop the WSKW/WOBM/WVNY melange, sometimes under it. [Connolly MA]
- 1340nf VENEZUELA R. Falcon, Sintonia Tushka 94, APR 1 1758 - Not on 1350 as in WRTT, and as they themselves announce. News about the movement of tourists during Holy Week on Venezuelan highways. [Objio-DR]
- 1420 VENEZUELA R. Marabun, Maracaibo, APR 2 0430 - Pop music, did not mention the word "Super" as it is used by most Venezuelan stations. [Objio-DR]
- 1430 VENEZUELA "Bahia" (did not use "Radio"), Puerto La Cruz, APR 1 0443 - Repeating "Bahia" several times, then a song. [Objio-DR]
- 1520 PUERTO RICO "R. Aeropuerto Quince Veinte AM", San Juan, APR 3 0130 - Announcing a program entitled "Por Una Cabeza" (For One Head), a horse racing program with the musical introduction of Carlos Gardel singing that song, then another ad for a program of tangos. [Objio-DR]
- 1530 PUERTO RICO WUPR Utuado, APR 7 With a baseball game between Utuado and Poverut, ads for ferretaria in Utuado, Centro car service. [Objio-DR]
- 1530 MEXICO XEUR Mexico DF, APR 14 0746 - Good with lively music, ID as "Radio Onda, Onda, Onda". [Axelrod-MB]
- 1580 PUERTO RICO R. Jete, Morovis, APR 3 0123 - With a baseball game between Aguadilla and Vega Alta, with this one in the 4th inning. [Objio-DR]
- 1610 ANGUILLA The Valley, APR 19 0259 - religious group vocal; fair to good. [Connolly-MA]
- 2120 HONDURAS LV de CentroAmerica APR 9 0315-0321 - ID and ads. Excellent signal. 2x1060 harmonic. [Moore-IA]
- Eric speaks:* "I've also been logging Cuba in the evening hours on 640, after midnight CDT, KFI, WWLS and WOJ battle it out on 640, while WJZJ still dominates on 620, along with an unID SS (maybe another Pan American station or WSKQ). WAVU (all 28 watts) has been logging 630 the last few nights, with the only other 630 heard at night being XEFB with its all-news format in SS."
- Dor speaks:* "Logs dated APR 8-10 were made at the MARE DXpedition at Island Lake State Recreation Area, near Detroit, Michigan. Equipment was an unmodified Sony ICF-2010 connected to a 360 foot north to south mini-beverage, via a diode protection block. Loggings with other dates were made in at home in Davenport with an R-5000 and two 400 foot mini-beverages."
- STATION NEWS
- BELGIUM: RVI uses 1512 0400-2300, they increase power at local sunset. [BE in ARC APR 17 1994]
- CLANDESTINE: National Radio of the Saharan Democratic Republic now observed on 11800 in parallel with 1544 and 576 (announced). Transmissions are in AA to the Middle East, scheduled 0600-0800 (exc. Fr), 0700-0900 (Fr), and 1800-2400. A transmission in SS can be heard irregularly at 0000-0100. [Benelux DX Club in Medium Wave News MAY/JUN 1994]
- GERMANY: The following NDR transmitters have been taken out of service: Rostok 558, Schwenn 576 and Kiel 612. The output power of Hamburg 972 is now 100 kW (ex 400), Hannover 828 50 kW (ex 100), Hildesberg 657 20 kW (ex 40) and Lingen 792 5 kW (ex 10) [Kurier via DXclusive #680 in ARC APR 17]
- MEXICO: Further listening on 2020 kHz has proven it was Radio Lobo 1010 from Mexico, and not the Dominican Republic as first thought. There are still some reports from the southern U. S. of the Radio Comercial 1010 being heard on 2020 on Glenn Hauser's World of Radio. Our 1010 // 2020 was Radio Lobo as also heard on World of Radio. Just love these mix-ups. [Axelrod-MB]
- MONACO: RMC 702 plans 1240 kW. [HR, Wurtzburg in ARC APR 17]
- NETHERLANDS: Holland FM 1224 kHz. Address is incorrect in previous posting. It has also been reported incorrectly by other people. According to a station QSL card its address is: Holland FM, Bendrechtsweg 36, 3012LC Rotterdam Netherlands. [Derek Taylor and Medium Wave News via Steve Whitt e-mail]. Currently operating with a 10kW transmitter from an underground emergency bunker at Nozema site at Lopik. Actual radiated power is less (approx 2.5kW) limited by local radiation limits. Holland FM has bought the Communicator radio ship (ex Laser 558) by local radiation limits. Holland FM has bought the Communicator radio ship (ex Laser 558) which it wishes to operate from the middle of the IJsselmeer. The intended site was a small harbour on the 20km dyke crossing the sea from IJnhuizen and Lelystad. Operation here is proposed to be about 40kW for coverage of much of the Netherlands, failing this plan, Holland FM may be stuck with using several low-power land based sites which is considerably more expensive than one higher-power site. Address: 1 Draksweeg 37, 3012LC Rotterdam, Netherlands

(station will QSL). Programming has a large proportion of Dutch music. [Jonathan Marks, David Duckworth and Derek Taylor via Steve Whit e-mail]

UNITED KINGDOM - Virgin Radio 1215 is currently campaigning for an FM frequency, undoubtedly with the debate over the use of 105-108 MHz in mind. On-air announcements are advertising an "FM pettion pack" ... they hope to present the RA with "millions of signatures". [Tony Rogers in Communication, March 1994 via *Discrete* 4/94]

UNITED KINGDOM - The Radio Authority has received six applications for the third Independent National Radio licence (INR3). This station will use the 1053/1089/1107 kHz channels currently occupied by BBC Radio 1. The RA hopes to announce their decision in June/July 1994. The highest bid, at GBP 3.82 million, came from Talk Radio UK Ltd. [BDCX in ARC APR 17]

VATICAN - 1692 kHz Vatican Radio Spurius signal noted here consisting of mix of audio from Vatican transmitters on 1530 kHz and 1611 kHz. This is an intermodulation product - (2x1611 kHz) 1530 kHz thought to be generated at the transmitter. Noted around 2000 UTC. Spurius signal on 1692 kHz noted in Suffolk, England. Similar problem noted in Preston directly affecting 1611 kHz output. [Derek Taylor and Steve Whit e-mail] Vatican Radio is now using approximately 100 kW on 1611. [BE in ARC APR 17]

YUGOSLAVIA (?) - 1662 kHz UNID probably in former Yugoslavia. New station first noted early April with overnight operation. Eclectic music mix (including local music, Irish music, US 1960 pops etc) with presenter & phone calls in East European language (definitely not Polish or Russian - probably Serbo/Croat) Time checks definitely Central European. Extremely distinct time pip at top of hour consists of a very violent Cuckoo Clock! Very clear signal after Denmark and Italy sign off 1062 kHz. Very loud modulation. [Steve Whit e-mail]

TA BEACONS - 1635 Brest Radio FRANCE, ship-to-shore telephone (ship on 2049 kHz) 1641 Lands End and Niton Radio UK, navigation warning WZ783/773; 1641 Niton Radio UK, Thames Pilage Services/traffic list; 1677 Main Head Radio IRELAND, navigation warning 219; 1688 Funchal ? Radio, navigation warning 289; 1692 Boulougne Radio FRANCE, navigation warning; 1698 La Coruna Radio SPAIN, station-station communications; 1704 Lyngby Radio DENMARK, Gale warning/Nav warning 523; 1704 Tarifa Radio SPAIN, Navigation warning 339; 1707 North Foreland Radio UK, Gale warning; 1713 Scheveningen R. NETHERLANDS, weather forecast // 1716 kHz. [heard APR. 1994 by Steve Whit (UK) in Medium Wave News MAY/JUN 1994]

UNIDS (in DXN 61-24)

1030 "UNID RCN" - the 1993 WRTM lists HIER as RCN, not Antena Dos, therefore not // 650, so possibly 1994 WRTM is wrong. [Wilkins-CO] (Thanks, John - Jim)

1510 "XK32" - The 1990 IRCA Mexican List shows an XEQI on 1510 from Monterrey, listed as 10 kW days, however. [Wilkins-CO]

1550 "XEREN" - IRCA Mexican List shows call as XEREL in Michoacan, Morelia with only 500 watts. [Wilkins-CO]

1560 "XEMAR" both 1994 WRTM and 1990 IRCA List show call as XEMAS with 1 kW day and night. [Wilkins-CO]

John speaks: You wondered "so why tentative?" regarding XEMBC 1190 [in DXN 61 24]. I guess I'm pickier than most when it comes to ID'ing a station. If I had heard a phrase such as "Buen Radio Variedades de México", i.e., tying together slogan and city, then I would have counted it. But phraseology is everything, a mere mention of "Radio Variedades" is not an ID, a mere mention of "México" proves nothing; PST tunechecks are only a clue. These items were heard separately and may not have been coming from the same station - there was QRM on the frequency. This definitely ranks as probable, but until I'm 100% sure in my mind, not 95%, I'll not positively count it. Also "Radio Variedades" is a very common slogan, used by many XE stations, and just because a station is listed somewhere as using a certain slogan doesn't mean it is so. "List Logging" still remains one of the cardinal sins to be avoided by DXers. There is no substitute for a real station ID. Anything less is either "unID", "tentative" or "probable", depending on the listener's degree of confidence. (John, I agree with everything you say. The way you described the logging gave me the impression that the items you heard were one after another from a single signal; apparently they were more fragmentary and more open to question. - Jim)

QSL INFORMATION

MEXICO - 620 XEBU Chihuahua. PFC, note, stickers in 19 days for C-10 tape, \$1. V/s Reyna Salmon de Boone, Depto. de Chihuahua. [Wilkins-CO] 820 XEUDO Los Mochis. PFC, n/d letter, postcard in 50 days for \$1. V/s Luc R. Irma Penabaz Castro, Directora, Address: Blvd. M. Garibola y Carretera Int'l, A.P. 936, 81200 Los Mochis, Sinaloa. [Wilkins-CO] 830 XELK Zacatecas. PFC, n/d letter, desk calendar in 22 days for \$5 report \$1 V/s Francisco J. Llanas A., still using "Cinda Juvenil 128" stationery. 50th XE QSL on medium wave. [Wilkins-CO] XEQ-940 sent qsl

card and letter in 3 months by certified air mail, along with XEW-900 banner, and stickers from XEQ 92.9, XEX-730, XEW-900 and XHQ-940, v/s Ing. Miguel Angel Barrientos Valadez, Director Técnico de Plantas Transmisoras, Grupo Radiópolis, Tlalpan 3000, Col. Espartaco, C.F. 04870, Mexico City. [Kantrow-NY]

TURKS & CAICOS: RVC 535 Usual t/d card from Box 2908, Patterson NJ. V/s Bob Janney KAAVVO, CE. [Wilkins-CO]

CONTRIBUTORS

Ben Dangerfield, Wallingford PA; HQ-180, Radio West Loop.
Eric Buemann, NDUH, Hazelwood MO, Realistic DX-200, Worcester SM-2.
Jim Rafter, Rochester NY; HQ-180 Radio West Loop
Shawn Axelrod, Winnipeg MB; ICOM ICR-70 with PLAM Board and Filter mods, 100' longwire, 4' box loop, Quantum Loop
Herb Shatz, Warwick NY; RFG 7000 and Quantum Loop.
Mark Connolly, WALTON, Billerica, Drake R8, two slopers (approx. 37 m. each) via noise-reducing transformers to DL-1 Phasing Unit <DR> RTL-2 Remotely-Tuned Loop - Both setups are passed through MWT 3 Regenerative Tuner.
Don Moore, Davenport IA
Werner Funkenhauer, Kitcheners ON, ICOM R71A, Kva a Mediumwave Loop.
Steve Whit, *Medium Wave News*, United Kingdom.
Chris Melodche, London ON; Yaseu RFG-8800, 4' loop, 300dB Amp/Preselect, GE Superradio II.
John Wilkins, Wheat Ridge CO; Drake R-8, 4' Box Loop
Cesar Ochoa, Santo Domingo, Dominican Republic; TR1 Realistic, 4' loop.

International DX Paul Swearingen

2840 SE Illinois Avenue
Tolpeka, KS 66605-1427

International DX totals listed periodically in different categories

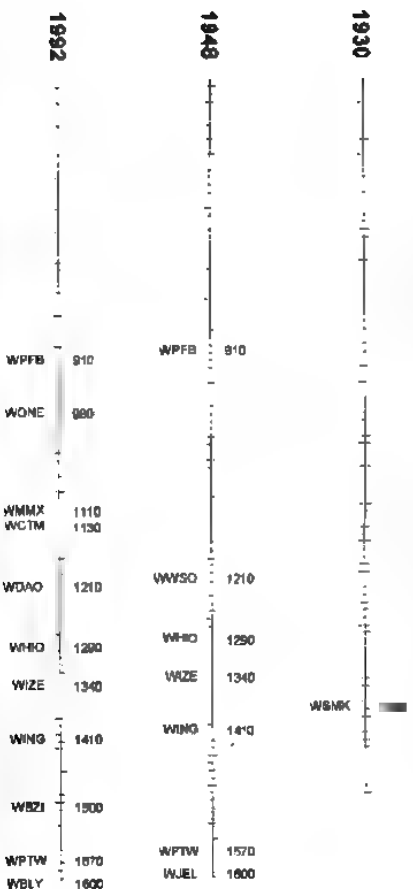
Year	Station	DXer	Location	Last Update	Total Verified	As	China	Prigu	SA	NA	EUR	OC	AF
1952	Stuart	DXer											
1952	McIntosh, Eric	NZ	1993	666	61	63	65	2	301	45	253	4	
1952	Miller, Roy	WA	1993	2031	63	81	369	34	154	18	99	1	
1957	Vernon, Brian	YU	1981	314	55	39	232	1	7	63	106		
1963	Scragg, Greg	CA/ON	1971	526	26	47	440	10	354	18	31	1	
?	Dell, Sam	Australia	1978	362	23	37	218		109	5	80	1	
1958	Taylor, Pete	CA	1975	375	39	26	58		4	22		13	
1954	Gustafson, Hilding	IL/FL	1993	865	24	115	319	36	68	115	61	24	
1958	Dangerfield, Ben	PA	1981	422	8	118	323	44	84	148	8	31	
1965	Moore, Ray	MA	1993	245	7	104	245	52	95	59	8	24	
?	Callahan, John	?	1970	740	6	90	138	20	72	1	20	3	
1958	Anderson, Roger A.	VA/NV/PA	1993	1448	5	105	514	78	227	128	48	28	
1958	McIntosh, Eric	VA	1994	1615	4	93	368	47	212	88	3	14	
1966	Holbrook, Hank	MD	1993	2876	3	109	640	103	303	156	49	26	
1960	Moore, Sam	MA	1993	3922	3	84	424	67	218	221	1	14	
1953	Geary, Kermit	PA	1993	6190	2	107	988	243	512	147	61	23	
?	Sampson, John	NJ	1965	445	1	54	72		6	23	38	1	
1962	Edmunds, R.J. (taped)	NJ	1993	897	1	43	56	37	57	65	14		
1951	Steele, Sid	IL	1993	3071	1	35	298	12	103		2	8	
1958	Wieskowski, Emil	NE	1977	1898	1	24	168	6	153		7	1	
1951	Holland, George B, Jr.	NY	1993	884	1	18	129	5	46	5	2		
1981	Buermann, Eric S.	MO	1994	472	0	12	10		470	2	0		
1953	Cooper, Ernest	NY/MA	1980	4142		79	760	131	528	88	7	6	
1954	Riggs, Andy	QC	1993	1672		69	269	48	83	65			
1954	Starr, Jerry	OH	1974	1209		51	194	34	134	26			
?	Falkner, Jeff	ON	1976			49	1175		44				
1962	Musco, Ron	CT	1994	1206		36	30		30	6			
1976	Beckwith, Jim	NY	1993	331		35	51		7	44			
1955	Palmer, Richard D.	IL	1993	822		33	94		77	10	2	1	
1965	Straus, Elliot	NJ	1993	89.		33	41		5				

Now and Then John D. Bowker

Dial changes in AM markets, from 1930 to 1948 to 1992

DAYTON MARKET

(NOT SHOWN, MLW IS HIGHLY RATED IN THE DAYTON MARKET)



MRC Letter Opener

\$1.75 each! Sturdy yellow plastic ... opens letters, cuts string, package wrapping and more! Order from NRC Publications - NY orders, please add sales tax.

Formats

Changes in programming status; reported by listeners

Tony Fitzherbert
356 Jackman Avenue
Fairfield, CT 06430-1728

both Al Hult and Dave Schmidt have sent along the information that WGGT-AM 1210 kHz. in Philly became WGGT at 1:00pm, on March 18. WGGT, which stands for "The Game in Philadelphia", is now Philly's second all sports outlet. It will compete with essentially sports talk WIF-10 with a diet of Phillies baseball, Temple University sports, and American Sports Radio Network feed.

Soon I will be off on my annual railroad trip, this journey over the Amtrak boulevard of steel to Miami, New Orleans, Chicago, and St. Louis. Along with enjoying the commuter rail facilities and rapid transit lines in these cities, I hope to get some interesting station profiles from Toledo in Miami and Chicago...and of course some format info for this column.

Your Forums column is courtesy of The M Street Journal, Eric Buennenman, and Dave Schmidt. Here goes.....

590 WARM PA Scranton

(DS) :

600 WFST ME Caribou - Back on the air with religion (M).

700 KSUR CA Soledad - Classical//KSUR-FM (EB).

780	KXOH	NV	Reno	- News and talk (M).
-----	------	----	------	----------------------

830 KBOA MO Kenneth - Ac Monday - Saturday, Southern Gospel on

920 KDES CA Palm Springs - Oldies//FM (M).

970 WKHM MI Jackson - News and talk (M).
 1260

980 WXBQ VA Bristol - Talk (M).

1040 WHO IA Des Moines - News and talk, Talknet (EB).

1150 KSVZ TX El Paso - Spanish//KINF 93.9 (BB) -

1270	WGC	NC	Belmont	- Talk (M).
1270	WGC	NC	Belmont	- Talk (M).

[illegible]

1360 KCMG MO Mountain Grove - Southern General//KCMG-TV 106.5 (EB).
1230 KMDZ FM 102.1 - 102.1M 102.1 1340 ofies (EB).

- EX-NEEN; WILL STAINING BY THE TIME YOU READ
THIS (X)

1400	WFLD	KY 11 NEWS at 11.
1400	XTRM OK	McAllister - News and talk (M) -

1450	WCAL	ILL	JACKSON	- Country Music (M).
1450	WETV	MN	R/V	- <i>Notre-Dame's</i> // WETV-TV (FR)

1490	WABD	M5	BLOCK	-	SMM Standards (M)
1500	WDER	MT	Red Citr	-	O) d' es (M)

1570	KPRK	IX	TELEROLL	- Country music (M).	12:59:00 (PM)
1573	KPRK	ON	Wheeler		

WJIB-1190, in New York City, is trying to buy Port Wayne's WOWO, so that either

Black oriented talk and Caribbean format. Evidently the city fathers of Fort

station, or its airing a format which will not really serve WONO's market.

bought by the Lower Colorado River Authority, to broadcast an 211 weather

And WLAN, WZOU, and WJTO, all in Maine, and always simulcasting, have added

Ma...three stations and no board operator! How cost effective!!!"

GOES.....

6000	WFRM PA Coudersport	- Country, talk.
6400	WISZ MI Zeeland	- CSN Childrens Network.
8100	WBYT MI Rockford	- SEN Sports.
8300	KVHV MI Honolulu	- Unistar oldies.
9500	KVHV CA Auburn	- News, talk.
9900	KTKT AZ Tucson	- Univ. CNN Headline News.
11500	KSAL KS Salina	- All talk (Gary Houdek).
11700	KRFI FL Bushnell	- Talk/WFRB.
12300	KKUL MT Hardin	- JSN Country, talk.
12300	KEEB TX Nacogdoches	- SPN Urban adult contemporary.
12500	WOHL TX Live Oak	- FRN "For the People", MOR talk.
12600	KVHK KS Hutchinson	- Gospel (Gary Houdek).
12700	KLOX TX Bay City	- Univ. CNN Headline News.
12900	KIVY TX Crockett	- Standards and easy listening.
13000	WQAD MS Jackson	- Black, gospel.
13300	KRRR AZ South Tucson	- JSN Easy listening.
13300	WOLD VA Marion	- Country gospel.
13400	WBRT GA Lyons	- Country adult contemporary, SEN Sports.
13500	WKCF MI Cadillac	- Pen Talk.
13700	WEGP ME Presque Isle	- Country/WTCM-FM.
14000	WKXI MS Jackson	- Talk.
14100	WGRD MI Grand Rapids	- Urban adult contemporary/FM.
14500	WBRT GA Cartersville	- News, talk, sports.
14700	WADR NY Ramon	- Country music (Gary Houdek).
14800	WCRZ FL Charleston	- AC/SEN Sports/WFRV-1350.
15200	WYBZ FL Indian Rock Beach	- Gospel, urban contemporary, talk.
15300	WSPF MI Lapeer	- Ethnic.
15400	WTNE OH Niles	- SEN Sports.
		- Comedy "Punny", see call.

All for now. Thank you to our contributors.

73's.

Unusual Signals Above 1600 kHz .. by Shaun Axelrod

Over the years there have been numerous loggings between 1600 and 1700 kHz of unusual Morse code signals. Many of these are the small Medfers, or small, very low-powered beacons run by private radio experimenters.

However, there are other signals that have mystified listeners for years. While looking through the *Grove Shortwave Directory*, I came across some excellent information that may help clear up these mystery signals. The *Directory* lists a series of frequencies and call identifiers for "Fishing Net Buoy and Beacons", identified as being used by offshore fishing boats.

It seems these boats or ships place radio transmitters on their nets or lines and use these beacons for locating via direction-finding antennas at a later date. Each of these CW identifiers is made up of numbers and/or letters in seven patterns. The beacons use ROMs that are factory-programmed in the following patterns:

- K-A-V 4 or 5 numbers
- 8/9-W + 3 numbers
- 1 letter + 1 number
- 1 letter + 2, 3, or 4 numbers
- 2 letters + 1, 2, or 3 numbers
- 5 letters
- 1 number + 3 letters

As you can see, there are a lot of possibilities for identifiers. Many of the KA calls start with an 8 or 9. The others vary



Great Songs Great Memories

widely, but many do start with an A or B. It seems that there are beacons on almost every frequency from 1612 through 1797 kHz, and several of the frequencies have more than beacons on them, so be careful.

Besides these fishing net buoys and beacons, there are also other radio location signals that can be heard.

DECCA HI-FIX: Uses one short, three long dashes per second.

CUBIC ARGO: Two four-second bursts of uneven chirps.

Also found in this area of the radio spectrum are two- or three-number CW identifiers from aeronautical beacons. These are fore the most part from Central or South America and the Pacific regions.

If you are looking for more information, find a copy of the *Grove Shortwave Directory*, Eighth Edition. You can be surprised at the information you can find about medium-wave DXing in some shortwave publications. I do hope this helps you out in your DXing. One final note: many of these stations may have to move to new frequencies as the AM radio band expands towards 1700 kHz. They are expected to move to the 200-400kHz range.

(Note: the *Directory* is available in looseleaf form from Grove Enterprises, P.O. Box 98 - Brantford, NY 28902-0098, (800) 438-8155, for \$29.95 with binder, \$24.95 without.)

Graveyard Achievements

Distance records for stations logged on graveyard frequencies

Bill Hale

495 Creeksview Drive
Meridian, ID 83642-3241

1490 kHz

Logged from Jan 1, 1986 to Present
Date of Last Update: March 12, 1994
* indicates North American record holder

WANA	AL	Anniston	Charles Reh	Learnington, ON	605
WAJF	AL	Decatur	Neil Wolfish	Toronto, ON	745
WHBB	AK	Selma	Frank Merrill	Millan, MI	687
AFRN	AK	Campion	Esa Hanninen	Lemmenjoki, Finland	3209
AFRN	AK	Elision AFB	Frank Merrill	Nenana, AK	52
KBAS	AZ	Bullhead City	Jeff Tynan	Parker, CO	609
KCUZ		Clifton	Rick Carr	Wheat Ridge, CO	(Tie) 609
KYCA		Prescott	John Wilkins	Bloomington, IL	1168
KAIR		Tucson	Laure Boyer	Wheat Ridge	540
KZAO	AR	Dardanelle	Stephen Ponder	Invercargill, NZ	7386
KDRS		Paragould	Shawn Axelrod	Bellevue, WA	74
KOTN		Pine Bluff	Carl Dabesteln	Harrison, AR	1003
KARV		Russellville	Steve Francis	Winnipeg, MB	510
KWAC	CA	Bakersfield	Cole Alm	Lincoln, NE	519
KMET		Banning	Bruce Reynolds	Alcoa, TN	4947
KOWL		Bijou	Pete Taylor	Abisko, Sweden	*210
KICO		Calexico	Bruce Reynolds	San Jose, CA	364
KRKC		King City	Frank Merrill	San Francisco, CA	155
KTOB		Petaluma	Frank Merrill	San Jose	482
KBLF		Red Bluff	Jim Hinkler	Nenana	2266
KDB		Santa Barbara	Richard E. Wood	Nenana	2107
KOWL		South Lake Tahoe	Roy Miller	Anahem, CA	498
KSYC		Yreka	Esa Hanninen	Hilo, HI	2393
KBOL	CO	Boulder	Jeff Tynan	Bellevue, WA	*921
KGUC		Gunnison	John Wilkins	Lemmenjoki	*4791
KIO		Manitou Springs	Bruce Reynolds	Marysville, WA	*609
KOLR	CT	Greenwich	Esa Hanninen	Lemmenjoki	4634
WGCH		New London	Russ Edmunds	San Jose	*305
WNLG		Torrington	Russ Edmunds	Lemmenjoki	4519
WTOR	FL	Bradenton	Frank Merrill	Warrensburg, MO	*621
WTRL		Deland	Karl Jeer	Parker	124
WXVQ		Imnokahe	Ernie Cooper	West Des Moines	612
WKBM		Miami Beach	Mike Coorby	Warrensburg	517
WCKC		Millon	Steve Francis	Pett Rocher, NB	610
WTTB		Vero Beach	Shawn Axelrod	Little Silver, NJ	122
WSIR		Winter Haven	Don Lynch	Little Silver	114
WAKC	GA	Brunswick	Don Lynch	Millan	1013
WAKM		Condele	Don Davis	Stone Mountain, GA	375
WNLG		Montre	Don Davis	Provincetown, MA	1253
WSFS		Quitman	Don Lynch	Cambeld, ON	1191
WSNT		Sandersville	Ernie Cooper	Alcoa	399
WSYL		Sylvania	Mike Coorby	St. Anne, JMC	665
				Orlando, FL	34
				Wilbraham, MA	907
				Warner Robins, GA	50
				Lexington, SC	144
				Lynn, MA	1063
				Provincetown	990
				Canfield	715

WRLD	West Point (Lanette, AL)	Don Treford Charles Reh	Runaway Bay, JMC	1111	WLCW	Lancaster	Andy Rugg	Nuns' Island, PQ	31
KCID	ID Caldwell	Esa Hanninen John Wilkins	Leamington	*649	WU5S	NJ Atlantic City	Debra Hidden	Orlando, FL	125
KCLB	Chubbuck	Esa Hanninen John Wilkins	Wheat Ridge	*650	KRSN	NM Los Alamos	John Wilkins	Wheat Ridge	860
WKRO	IL Cairo	Russ Edmunds Niel Wolfsh	Wheat Ridge	4431	KRTN	Raton	Tina Hall	Rancho Bernardo, CA	274
WDAN	Danville	Shawn Axelrod John Malicky	Chen Rock, NJ	*440	KOAW	Ruidoso Downs	Tina Hall	Port Carling, ON	767
WPSL	East St. Louis	John Malicky Wayne Heinen	Winnipeg, MB	851	WCSS	NY Amsterdam	Morris Sorensen	Port Carling, ON	666
WOPA	Oak Park	Niel Wolfsh	Winnipeg	848	WETA	Batavia	Russ Edmunds	Little Silver	303
WZOE	Princeton	Niel Wolfsh	Pittsburg, PA	(Tie) 848	WKNY	Kingston	Frank Merrill	Millar	286
WKBY	Richmond	Niel Wolfsh	Buffalo, NY	546	WICY	Malone	Charles Reh	Leamington	446
WNDU	South Bend	Niel Wolfsh	Wilowdale, ON	450	WIDC	Port Jervis	Don Treford	Scarborough, ON	266
KBUR	LA Burlington	Sieve Francis	Winnipeg	541	WCTO	Sidney	Joe Kureth	Uniontown, MD	218
WDBQ	Dubuque	Esa Hanninen	Alcoa	961	WOLF	Syracuse	Charles Reh	Leamington	333
KOLQ	Indianola	John Wilkins	Wheat Ridge	4220	WSSB	Durham	Andy Rugg	Montreal	705
KRIB	Mason City	Esa Hanninen	Leamington	427	WLOE	Eden	Russ Edmunds	Kinnelon, NJ	430
KKAN	KS Phillipsburg	Jeff Tynan	Abisko, Sweden	4227	WFLB	Hayterville	Tim Kerfoot	Weston	599
KTOP	Topeka	John Wilkins	Wheat Ridge	*739	WBNS	New Bern	Dave Fox	Reading, PA	370
WKRY	KY Frankfort	Esa Hanninen	Leamington	778	WBMT	Roddy Mount	Andy Rugg	Montreal	705
WKAY	Glasgow	Tim Kerfoot	Leamington	615	WSTP	Salsbury	Charles Reh	Leamington	452
WEXY	Middleboro	Frank Merrill	Weston, ON	4170	WSVM	Valdese	Frank Merrill	Millan	449
WOMI	Owensboro	Niel Wolfsh	Chicago, IL	*661	WISL	Wilmington	Tim Kerfoot	Toronto, ON	655
WSP	Paintsville	Andy Rugg	Toronto	4318	KNDK	Heltinger	Olle Alm	Abisko, Sweden	3982
WISC	Waterloo	Charles Reh	Leamington, ON	*308	KOV	Valley City	Jeff Tynan	Parker	463
KJIN	Houma	Sieve Francis	Alcoa	4417	WBEX	OH Chulicotte	Roy Millar	Marysville	1137
KRUS	Ruston	Charles Reh	Leamington	*717	WIMO	Cleveland Heights	Bill Alisuskas	Douglasville, GA	378
WPOR	ME Portland	Esa Hanninen	Leamington, ON	472	WOHL	East Liverpool	Chris Lucas	Fairfield	430
WTVL	Waterville	Russ Edmunds	Leamington	352	WMOA	Marion	Sieve Francis	Alcoa	382
WARK	MA Haverhill	Charles Reh	Leamington	418	WMRN	Marion	Niel Wolfsh	Winnipeg	284
WHAV	MA Haverhill	Andy Rugg	Montreal, PQ	573	KOKC	OK Guthrie	Shawn Axelrod	Winnipeg	978
WMRC	Midford	Jeff Tynan	Youngstown, OH	407	KBRX	Muskogee	Esa Hanninen	Leamington	(Tie) 978
WACM	West Springfield	Christian DeHaes	Cincinnati, PQ	867	KBRN	Roseburg	John Wilkins	Wheat Ridge	4620
WABJ	MI Adrian	Esa Hanninen	Clinton, ON	859	KBYZ	Salem	Niel Wolfsh	Winnipeg	*500
WAND	Manistigue	Bruce Reynolds	Leamington	288	WZSB	PA Bradford	Mike Hardster	Winnipeg	1000
WMPX	Midland	Rodney Valdron	Winnipeg	673	WAZL	Hazleton	Esa Hanninen	Leamington	4374
WPBK	Whitehall	Niel Wolfsh	Winnipeg	516	WARD	Johnstown	Russ Edmunds	Leamington	4541
KKRA	MN Alexandria	Don Voorthies	Oswego, NY	436	WBCB	Lancaster	Steve Francis	Leamington	*412
KODS	Duluth	Russ Edmunds	Parispany, NJ	420	WMAR	Levistown	Morris Sorensen	Modesto	*514
KLGR	Redwood Falls	Roy Millar	Winnipeg	4009	WMB	Levistown	Niel Wolfsh	Leamington	3994
WLOX	MS Biloxi	Frank Merrill	Leamington	*554	WMBR	Meadville	Esa Hanninen	Leamington	*262
WCLD	Cleveland	Charles Reh	Youngstown	791	WMBW	Winnipeg	Charles Reh	Leamington	762
WHOC	Philadelphia	Jerry Starr	Fairfield, CT	489	WMCW	Winnipeg	Charles Reh	Leamington	558
WTUP	Tupelo	Ralph Sperry	Alcoa	1111	WNB	Walla Walla	Charles Reh	Leamington	354
WFL	Vicksburg	Steve Francis	Alcoa	462	WVGB	Beaufort	Charles Reh	Leamington	671
KDMO	MO Carthage	Frank Merrill	Winnipeg	661	WGGD	Chesler	Steve Francis	Leamington	228
KTRR	Rolla	Shawn Axelrod	Winnipeg	874	WMRB	Greenville	Russ Edmunds	Leamington	3945
KOKO	Sedalia	Esa Hanninen	Winnipeg	813	WSDC	Hartsville	John Wilkins	Leamington	*126
KDBM	MT Dillon	Roy Millar	Leamington	4279	KFCR	SD Custer	Charles Reh	Leamington	271
KXGF	Great Falls	Shawn Axelrod	Maryville	*486	KORN	MT Mitchell	Charles Reh	Leamington	284
KLYN	Lauriel	Esa Hanninen	Winnipeg	621	WDXB	Chattanooga	Carl Dabestain	Leamington	788
KEZO	NE Omaha	Esa Hanninen	Leamington	4199	WCSV	Crossville	Charles Reh	Leamington	750
WEML	N H Lacomia	Roy Millar	Youngstown	4282	WROL	Knoxville	Joe Kureth	Leamington	440
		Jerry Starr		*1363	WDXL	Lewisburg	Mike Corby	Leamington	451
				511	KNOW	Lexington	Tom Sundstrom	Winnipeg	825
					KST	Austin	Roy Millar	Winnipeg	1279
					KQTY	Big Spring	John Wilkins	Winnipeg	577
					KNEL	Brady	Shawn Axelrod	Winnipeg	988
							Jim Boehm	San Antonio, TX	125

KWAC	Del Rio	Jim Boelun	San Antonio	147
KZZN	Lighthouse	Shawn Axelrod	Winnipeg	1125
KPLT	Paris	Bruce Reynolds	Warrensburg	370
KDOK	Tyler	Steve Francis	Alcoa	690
KQON	UT Ogden	Ole Alm	Albino	4449
		Bruce Reynolds	San Jose	*594
WKVT	Brattleboro	Rodney Valdron	Petit Rocher	339
WFAD	Middlebury	Charles Reh	Canfield	460
WKE	Newport	Mike Scorbay	Leamington	580
WYKR	Wells River	Rodney Valdron	Petit Rocher	395
WQVA	VA Calpeper	Andy Rugg	Montreal	525
WPAK	Farmville	Mike Scorbay	Canfield	397
WVEC	Hampton	UK DXPedition E	Sheigra, Scotland	3445
WAYB	Waynesboro	Charles Reh	Leamington	*477
KBRO	WA Bremenon	Don Lynch	Lynn	514
KVAC	Fort	Esa Hanninen	Lemmenjoki	4239
KEYC	Grand Coulee	Esa Hanninen	Lemmenjoki	4229
KCHO	Hogquiam	Tim Hall	Vancouver, BC	4180
		Shawn Axelrod	Vancouver, BC	161
KLOG	Kelso	Esa Hanninen	Vancouver, BC	(Tue) 161
KENE	Toppenish	Esa Hanninen	Lemmenjoki	4324
KTEL	Walla Walla	Esa Hanninen	Lemmenjoki	4294
WXTT	W	Rodney Valdron	Petit Rocher	4295
WTCO	Fairmont	Frank Merrill	Milan	1030
WLOH	Princeton	Bruce Reynolds	Warrensburg	257
WSGB	Sutton	Shawn Axelrod	Winnipeg	347
WCEZ	WI Beloit	Esa Hanninen	Winnipeg	700
WLCX	LaCrosse	Jerry Star	Youngstown	680
WIGM	Medford	Steve Francis	Alcoa	580
WOSH	Oshkosh	Esa Hanninen	Lemmenjoki	728
		Steve Francis	Alcoa	3968
KIML	W Y Gillette	Steve Francis	Alcoa	*619
KUGR	Green River	Gene Allen	Vallejo	965
		Ole Alm	Abisko	4390
KOJO	Laramie	Jeff Tynan	Winnipeg	*290
KGOS	Torrington	Niel Wolfen	Winnipeg	708
WKWD	PR Fajardo	Shawn Axelrod	Chewy Chase	614
CPR	AB Blainmore	Hank Holbrook	Lemmenjoki	1600
CBXY	BC Campbell River	Esa Hanninen	Lemmenjoki	4033
CFWB	Hope	Esa Hanninen	Lemmenjoki	3631
CKCO	Natal	Roy Muller	Lemmenjoki	4102
CBXN	Oliver	Tim Hall	Marysville	135
CKOOL	Christian DeHes	Tim Hall	Banff, AB	375
CKAV	NB Grand Sault	Rodney Valdron	Chicoutim	227
VOHF	NF Harmon Field	Esa Hanninen	Petit Rocher	182
CBQJ	Labrador City	Esa Hanninen	Lemmenjoki	3281
CBQJ	NT Hay River	Esa Hanninen	Lemmenjoki	2591
CKEN	NS Kentville	UK DXPedition E	Sheigra, Scotland	2968
		Russ Edmunds	Little Silver, NJ	*601
CKAD	Middleton	Chris Lucas	Troy, NY	485
CHVR	ON Amprior	Shawn Axelrod	Orleans, ON	210
CHYM	Kitchener	John Wilkins	West Des Moines	691
CFPS	Port Elgin	Don Voordus	Oswego	54
CKLR	L'Amontication	Shawn Axelrod	Winnipeg	871
CKBM	Montnagery	Charles Reh	Leamington	430
CMC	Sec-Anc-des-Monts	Russ Edmunds	Little Silver	493
CJMS	Shanavon	Esa Hanninen	Espoo, Finland	3810
XERO	AGUA Aguascalentias	Esa Hanninen	Lemmenjoki	3930
XECT	MICHA Zamora	Tim Hall	40mi W of Puerto Vallarta	226
		Tim Hall	10mi W of Mazatlan, SIN	361

XESK	NAY Ciudad Ruiz	Pete Taylor	Cabo San Lucas, BCS	333
XEDR	SON Guaymas	Tim Hall	Power, CA	316
XEMS	TAMS Matamoros	Esa Hanninen	Lemmenjoki	503
		Pete Taylor	Cabo San Lucas	5321
HIZB	COL Tula	UK DXPedition E	Sheigra	*803
YVRP	VEN Maracaibo	UK DXPedition E	Sheigra	5298
		UK DXPedition E	Sheigra	4747

E = UK DXPedition (Steve Whitt, Mark Hattam, Clive Rooms)

For Beginners

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Information and advice of interest to inexperienced DXers

A Walk Through the NRC Product Catalog
NRC members have access to a veritable treasure of DX knowledge and experience through the NRC Product Catalog. The purpose of this "For Beginners" column is to bring attention to some of the items in the catalog.

Over the years, many hundreds of articles on all aspects of medium wave DXing have appeared in *DX News*. Several hundred of those articles have been selected for listing in the catalog, and reprints are available at nominal cost. Some of those articles present information at the novice level. Others are technically advanced. For convenience, selections of articles on some subjects have been assembled in booklet form.

Antennas are the heart of DXing. The catalog lists four collections of antenna articles in booklet form and a listing of 79 separate articles available as reprints. Note here that some of the reprints also appear in the booklets. Few DXers build their receivers "from scratch", although that has been done, but many have built their own loop antennas. Home construction of an effective loop antenna is not particularly difficult. Even for those DXers who have bought or will buy a commercially-built loop antenna, home construction of a loop is an inexpensive and informative project. The only advantage of ferrite-core loops is compact size.

Probably most of us never heard of a Beverage antenna before getting into organized DXing, although the name appears often in *DX News*. The first was built about 1920 by Harold Beverage, an engineer for RCA. It was twelve miles long. The Beverage antennas used for medium wave DXing are not that long, but still require considerable real estate. To function as a Beverage, the antenna should be at least a half wavelength long, which means that to cover the medium waveband, a length of about 900 feet is needed. When correctly installed and located, the

Beverage is the ultimate antenna for medium wave reception. There are numerous Beverage articles in the catalog and one booklet, *Beverage and Longwire Antennas Design and Theory*.

For information on receivers and receiving techniques there are two booklets and over one hundred articles in the reprint listings. Some of the articles appear in both the reprint lists and in the booklets. Included are reviews of some receivers which are currently popular, including the Drake R8, as well as others which are fading into history. Again, the articles vary in technical level from basic to considerably advanced.

Much is known about radio wave propagation in the medium wave band, but it is not an exact science. The 39 articles listed in the section on propagation contain material not found in the radio textbooks. Recommended reading for all DXers is P10, "A Beginner's Guide to the Ionosphere".

The best-known item in the catalog is the NRC *AM Radio Log*. Now in the 14th edition, and updated annually, the *AM Log* is over 300 pages in 8.5 x 11 loose leaf format. All medium wave stations in the U.S. and Canada are listed by frequency, in large type with adequate space for entering call letter changes and other changes reported in *DX News*. Also included are cross reference pages which list the stations alphabetically by call letters, by state, and by city. The NRC *AM Radio Log* is recognized internationally and is almost essential for medium wave DXing.

Numerous other items appear in the catalog, and their not being described in this article is in no way a reflection upon their value. The Product Catalog was included in the October 11, 1993 issue of *DX News*. A copy can be obtained by sending a 29-cent stamp to NRC Publications Manager Ken Chatterton, P.O. Box 164, Mannsville NY 13661-0164.

Did YOU KNOW? that the FCC rules are divided over 80 "Parts" and that broadcasters need to know Parts 17 (antenna pointing and lighting), 25 (satellite communications), 73 (broadcast services) and 74 (auxiliary broadcasting), plus Part 1 (FCC procedures)

DL-1 Delay-Line Phasing Unit ... by Mark Connelly - WA1RON

The DL-1 phasing unit is a delay-line based design similar to Gerry Thomas's Phase One. His 1985 article "The Phase One - A Delay-Line Phasing Unit" is available through the NRC and IRLCA reprints services. Gerry's design was the first real usage of this technology as applied to medium-wave DXing. The Phase One was derived from an HP phaser presented by John Webb in QST (October 1982). The DL-1 updates the concept and uses a delay-line (RCD P2420-600NS-100) that is somewhat less expensive (about \$20) and more available than the Allen Avionics LC3002050A specified for the Phase One. Unlike the Phase One, there are no broadband amplifiers in the DL-1. It is a totally passive unit which is meant to work into a companion regenerative prescaler (Mini-MWT-3) when additional gain is required. Tests here (3 miles from 50 kW WRKO - 680) indicate that, in urban and suburban settings, running a broadband antenna (e.g., untuned long wire) into a broadband amplifier is just a bad idea. Even if the broadband amplifier is robust enough not to generate noticeable second and third order intermodulation distortion products with amplifier outputs around +20 dBm (local station frequency), the receiver may not fare as well. You want to boost weak signals without boosting already-strong local stations 100 kHz or more away from the frequency of interest. There are very few instances in which a broadband-amplification-after-broadband-phasing scheme will result in as low a noise floor and as good immunity to spurious signals as a tuned amplification approach would. In many cases, at least with longer wires and a good receiver such as a JRC NRD-535D, Drake R8, or Hammarlund HQ 180A, amplification is not necessary. This is especially true on "normal" nights when the desired DX left after "peet" nulling can still be of appreciable strength.

The DL-1 has enhanced flexibility in controlling nulls because the levels of Antenna Line 1 and Antenna Line 2 are both adjustable; also, each line can be connected alone to facilitate level balancing and appraisal of each antenna's directional pickup characteristics.

Noise-reducing principles have been incorporated by the provision for floating (non-chassis) grounds at the J3 and J4 inputs.

Principles of Delay-Line Phasing

In order to null out unwanted station "A" and hear subdominant (desired DX) station "B" when using two wires, the difference in phase between "A" and "B" on Antenna 1 should differ appreciably from the difference in phase between "A" and "B" on Antenna 2. This condition will most often occur when the "A" and "B" signals are coming from different directions and the wire antennas are oriented somewhat differently. What the phasing unit must do is to equalize the levels of Antenna 1's pest station "A" contribution to that from Antenna 2 and to provide a 180-degree phase shift of "A" from Antenna 1 to Antenna 2 entering the summation point. Level-equalization is most easily accomplished when the two wires are of similar length. If the equal amplitude / opposite-phase condition is met, station "A" is nulled, leaving "B" in the clear. Station "B" might be reduced somewhat as well, or it may actually be increased in level, depending on how different the phase difference ("A" to "B") is on Antenna 1 relative to that difference on Antenna 2. The occasional instances of desired DX stations getting nulled along with co-channel pests from a different direction can be minimized by having more than two longwire antennas available. Three wires give 6 possible pairing combinations (1 vs. 2; 1 vs. 3; 2 vs. 3; 1+2 vs. 3; 1+3 vs. 2; and 2+3). If there are substantial angular spreads between the three wires, almost any nulling situation can be managed. Desired DX close in bearing to pests to be nulled can sometimes still be listenable if the vertical arrival (skip) angles differ. Use of Beverage-length (over 300 m / 1000 ft.) wires helps in such cases.

The goal of both the delay-line and the L/C type (e.g., MWDX-5) phasing units is to provide a continuously-variable phase shift of the signal contributions from one or both of the antenna inputs. The delay-line method provides continuous shift on one of the two lines; Line 2 in the DL-1 case. To provide a full 360 degrees of shifting, a 0-deg. / 180-deg. vector is provided by R2 across the T2 balun secondary and a 90-deg. / 270-deg. (approximate) vector is provided by R3 after the delay line with range-switch S2 set to the tap providing a delay time of a quarter of a cycle of signal frequency (250 ns at 1 MHz). The 0/180 and the 90/270 vectors are summed to provide a variable-amplitude vector that can be "rotated" through a complete 360 degrees of shift. The delay time (tap) setting is a good deal less critical than you would think. I've labelled S2 positions as "low band", "mid-band", and "high band" but, in reality, the setting of S2 is not too important.

The R1 (Line 1) potentiometer reduces the level of pest station signal from Antenna 1 in cases when it is substantially larger than pickup of the same station on Antenna 2. Without this capability, it would not be possible to equalize the Antenna 1 contribution with the 180-degree shifted Antenna 2 contribution and a null would not be produced.

The RCD P2420-600NS-100 delay-line has 20 taps on it; these provide more delay times than needed. The four taps connected to S2 have been chosen for best performance at medium wave frequencies. I've tested the DL-1 on longwave, 160-meters, and tropical bands and nulls of

electrical noise and of steadier signals have been obtainable. Of course, a switch with more positions could be used at S2 if a given DXer wanted to utilize more of the taps.

The user will find that nulling with the DL-1 can be simpler than nulling with L/C design units because there are fewer knobs to tweak. The broadband delay-line based phasing approach does have as an advantage the ability to QSY (change frequency) to scan the band and to check parallel frequencies on both medium wave and shortwave quickly. These features can come in handy on Beverage DX expeditions and in other cases when a good opening is bombarding you with rare DX and you want to get maximum loggings in minimum time.

A tuned L/C phaser can provide somewhat higher signal levels than a broadband delay-line based unit such as the DL-1. Also in urban areas, the preselection provided by an L/C phaser such as Super-MWDX-5 can reduce the likelihood of the receiver being overloaded and producing spurious signals. There are advantages and disadvantages to both delay-line and tuned L/C type phasing unit designs.

For adequate signal levels with the DL-1, the minimum suggested wire length for each antenna is 30 m. / 100 ft. Wires much shorter than Beverage length should be aligned for an angular spread of 45 to 135 degrees, or 225 to 315 degrees, between them. Slopers and Beverages may work best with a 180 degree spread as they would each have distinct inherent nulls in opposite directions. I use one sloper that nulls about 10 dB to the west and another that nulls about 10 dB to the east. Phasing with that set-up is good because virtually no eastward signals come off the westward-favoring sloper when the amplitude of its western pick-up is reduced to the same level as the fairly-low (180-degree shifted) western pick-up of the eastward-favoring antenna. The result is little or no cancellation of eastward Trans-Atlantic stations when peety midwest dears are nulled. Indeed, stations easily heard on the phased wires (such as Algeria - 89) with W1LS - 890 nulled and England - 1089 with WBAL - 1090 nulled) are often just loud hets on any loop used.

Operating the DL-1: Initial Set-Up

The controls, as shown in Figure 1, are R1 (Line 1: level), R2 (Line 2: 0/180 deg. level), R3 (Line 2: 90/270 deg. level), S1 (Ground Mode: FLOAT or COMMON), S2 (Frequency Range), and S3 (Function: Ant. Line 1, Ant. Line 2, Null-a, Null-b). Connected one antenna wire to J1 and the other wire to J2. Floating grounds (e.g., sets of ground rods separated in distance from mains / receiver chassis ground) may be connected to J3 and J4 for reduction in electrical noise. Coaxial leadwires from remote noise-reducing "Bewincher" style transformers can be connected to J1/J3 (Line 1) and to J2/J4 (Line 2). S1 is set to FLOAT if noise-reducing grounding is available; otherwise it should be set to COMMON. Frequency range switch S2 should be set to Low Band for coverage below 800 kHz, Mid Band for 800 - 1400 kHz, or High Band for above 1400 kHz. There is a fourth position of S2 (Auxiliary or "X"), an experimental setting which may occasionally yield better nulling, especially in the Tropical Band frequency range. The settings of S2 are approximate, not overly critical, and somewhat affected by antenna length. Settings of S3, R1, R2, and R3 are discussed in the Nulling Procedure to follow.

Operating the DL-1: Nulling Procedure

The first part of nulling is to determine which of the three level pots (R1, R2, or R3) has the greatest initial effect in setting up a null. All three pots' knob pointers should first be set to "10 o'clock" where "8 o'clock" represents the fully counterclockwise (CCW) setting.

1. Set S3 to Null-a and observe the strength of the dominant "peet" station to be nulled as you run R1 through its range. If there is a distinct "dip" in strength and a possibly greater evidence of other stations, leave R1 at that null initiating setting and skip to step 8 below, unless the dip occurs at the fully clockwise (CW) (e.g., "4 o'clock" R1 pointer position).

2. Set S3 to Null-b and run R1 through its range. If a dip then occurs and R1 is not fully CW, leave R1 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R1 back to "10 o'clock" and switch S3 repeatedly between Ant. Line 1 and Ant. Line 2. If the pest station strength is noticeably higher on Ant. Line 1, adjust R1 such that signals from the pest station are about equal when S3 is switched back and forth from Ant. Line 1 to Ant. Line 2. If Line 2 had been stronger, return R1 to "10 o'clock". Put S3 on the null position (Null-a or Null-b) exhibiting the greater reduction in pest station strength (default to Null-a if there is no difference).

3. Run R2 through its range. If a dip then occurs, leave R2 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R2 back to "10 o'clock".

4. Run R3 through its range. If a dip then occurs, leave R3 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R3 to "12 o'clock" (center).

5. Run R2 through its range (now that R3's position has been changed). If a dip then occurs, leave R2 at that setting and proceed to step 8. If null-initiation still hasn't occurred, set R2 to "12 o'clock" (center).

6. Run R3 through its range (now that R2's position has been changed). If a dip then occurs, leave R3 at that setting and proceed to step 8.

7. Swapping the antenna inputs and/or trying a different S2 (frequency Range) setting (before re-iterating steps 1 through 6 above) may help in the rare cases in which a null will not set up satisfactorily.

The second part of nulling is to maximize the null that has already been initiated.

8. Deepen the null through small, careful adjustments of all three pots (R1, R2, R3) in a repetitive sequence. Before doing this, make a mental note as to where the three knob pointers are set just in case you overshoot the ideal setting of one of the pots and have to backtrack. When you're done, previously covered DX stations should be audible.

Application Notes

If there are several stations in a given section of the band on similar bearings, null solutions (settings of S3, R1, R2, and R3) will be similar. The controls can often be preset to close approximations requiring only minor re-tweaking to get to a given null. For instance, from a New England QTH, null control set-ups for WMAQ-670 (IL), WLW-700 (OH), WGN-720 (IL), CBI-740 (ON), WJZ-760 (MD), WEBM-780 (IL), CKLW-800 (ON), and WLS-890 (IL) do not vary much from a single approximate set-up of the four controls. That comes in handy in situations such as mine where the majority of pest stations come from similar bearings. In the daytime, Maine stations (over 90 miles distant) can be logged through the phased remnants of normally-dominant WELM-1280, WORC-1310, and WVEI-1440 (all in central Massachusetts 40 or so miles west of me) with a single setting of the DL-1 controls. This result is similar to what Gerry Thomas observed with his Phase One. Keeping a mental or written note of commonly used control settings employed in the removal of groups of pests will speed up the nulling process as a DXer gains experience with the unit.

Loop versus wire operation is not recommended because a broadband source (wire) phased against a tuned source (loop) will make a thorough null of offending-station audio difficult because of the different frequency response curves and group-delay properties of the two sources. Two loops of similar Q and gain could conceivably be phased by passing their outputs through the DL-1. The loop heads should be aligned at right angles to each other and at approximately 45 degrees to the pest station (one loop 45 deg. clockwise, one 45 deg. counterclockwise of the bearing of maximum pest pickup). When two-loop nulling is nearly completed using normal DL-1 procedures, the last few dB of null may be "squeezed out" through fine adjustment of either loop's physical position and/or loop tuning capacitor settings.

As with any nulling system (phasing or looping), the best results will be on daytime groundwave and on lower-angle skip at night. Nulls of lower-band stations are somewhat more stable than those of high-banders. "Easy" nulls of daytime regional and "graveyard" stations (already exhibiting evidence of sub-dominant stations) should be pursued first in order to gain proficiency in adjusting the DL-1 controls.

High-angle skip, mixed groundwave / skywave, and various multipath / multi-skip situations are difficult nulls to set up on any looping or phasing system. Phased Beverages seem to do the best and Adcock arrays are supposed to work well also.

Amplification

Broadband amplification is possible, but not recommended with cheaper receivers such as portables or with any receiver in a high-RF urban area. The simultaneous application of a wide spectrum of MW, SW, and VHF signals to an amplifier or receiver input can be a challenge. By going from the 5' X 4' X 3' box suggested for DL-1 to a slightly larger case, broadband amplifier components could be mounted in the same case as the phasing circuitry. The added components would consist of a gain control potentiometer, a 3-pole / 2-position amplifier on / off switch, a jack for DC power input, and the amplifier itself. Circuits which have good dynamic range are the BBA-C1 (as used in the Super-MWD-X-5), the BUF-A (or BUF-B) preceded by a 1:36 step-up transformer (as used in the KTL-2 Remotely-Tuned Loop), and the Motorola MHW591 circuit used by Craig Healy in his VCR DX scheme. Also usable are the Mini-Circuits ZHL 32A and Dallas Lankford's Noiseless Feedback (ZN5109-based) amplifier (as well as some of his grounded-gate FET designs).

Tuned amplification can provide a higher signal to noise ratio and superior rejection of spurious responses that typically result from too many strong signals at the amplifier or receiver input. The recently-published MWT-3 article describes a suitable tuned amplifier. MFJ, Grove, and other vendors have commercially-available units advertised in Monitoring Times. Popular Communications, OST, and other hobby publications. Figure 2 of this article shows the Mini MWT-3, a regenerative preamplifier that is simple in design. Documentation will be limited to this schematic and to Table 3 (a hole list) as it is, in essence, a reduced-complexity version of MWT-3.

The MWT 3 article and vendor catalogs (e.g. Mouser) will fill in other useful details for those wishing to build and operate the Mini-MWT-3.

DL-1 Construction Data

Table 1: DL-1 hole-drilling list

X = Horizontal distance, in inches, from the vertical centerline (VCL) on the side observed. Negative values of X are left of VCL, positive values of X are right of VCL.

Y = Vertical distance, in inches, from the bottom horizontal edge of the side observed.

D = Hole diameter in inches.

Hole loci are first marked on the box with a scriber and are then drilled with a .125" bit. Subsequently, as required, the holes are enlarged to the proper size by using progressively larger bits up to that corresponding to the final desired diameter.

Chassis Box = Mouser 537-TF-779 (metal); 5" X 4" X 3"

L E F T S I D E					
Hole #	Comp. Desig.	Description	X	Y	D
1	R1	Ant. #1 in - red banana jack	-1.375	0.75	0.3125
2	R3	Ant. #1 in - black banana jk	-0.625	0.75	0.3125
3	G1	Internal ground lug hardware	0.0	0.75	0.125
4	S1	GND mode switch - shaft	0.0	1.625	0.25
5	S1	GND mode switch - tab	0.0	1.375	0.125
6	S4	GND. #2 in - black banana jk	0.625	0.75	0.3125
7	J2	Ant. #2 in - red banana jack	1.375	0.75	0.3125

R O P S I D E					
Hole #	Comp. Desig.	Description	X	Y	D
1	R1	Line 1 pot. - shaft	-1.625	3.25	0.375
2	R1	Line 1 pot. - tab	-1.625	2.75	0.144
3	R2	Line 2 (0/180) pot. - shaft	-1.625	2.0	0.375
4	R2	Line 2 (0/180) pot. - tab	-1.625	1.5	0.144
5	R3	Line 2 (90/270) pot. - shaft	-1.625	0.75	0.375
6	R3	Line 2 (90/270) pot. - tab	-1.625	0.25	0.144
7	for R1	tie wrap hole (see note)	-0.125	2.875	0.144
8	for R1	tie wrap hole (see note)	-0.125	1.375	0.144
9	S3	Function switch - shaft	1.0	3.0	0.375
10	S3	Function switch - tab	1.5	3.0	0.144
11	S2	Freq. Range switch - shaft	1.0	1.25	0.375
12	S2	Freq. Range switch - tab	1.5	1.25	0.144
13	G2	Internal ground lug hardware	1.875	2.125	0.125

Notes: R1 delay line is secured by a nylon tie-wrap through top side holes 7 and 8.

Notes: R1 delay-line is secured by a nylon tie-wrap through top

Slide holes 7 and 8.

RIGHT SIDE					
Hole #	Comp. Desig.	Description	X	Y	D
1	J5	RF out - BNC jack	0.0	0.5	0.375

The Challenging Crystal Set

Hobbyists demanding the ultimate DX challenge, Ray Cole's pulling out all the stops in detailing step-by-step procedures in building a crystal set for only \$3.50. Order from NRC Publications. (NY residents add sales tax)

Table 2: DL-1 "upper level" parts list

* Note follows parts list.

Vendor codes for this and subsequent parts lists:

- MCL = Mini-Circuits Lab. / P. O. Box 350166 / Brooklyn, NY 11235-0003 / Tel. 1-800-694-7949
- MOU = Mouser Electronics / 11433 Woodside Ave. / Santee, CA 92071 / Tel. 1-800-346-6873
- RCD = RCD / 520 East Industrial Park Drive / Manchester, NH 03109-1824 / Tel. 1-603-669-0053
- RS = Radio Shack / Many locations worldwide

Schematic = Figure 1

Item	Designator	Description/Value	Vendor	Vendor Stock #	QTY
1	-	chassis box 5K4X3 knob	MOU	537-47-779	1
2	C1,2,3	capacitor, 0.1 uF	RS	274-416	5
3	G1,2	screw, #40 X .375"	MOU	538-CK05104X	3
4	G1,2	solder lug, #4	MOU	572-01881	2
5	G1,2	hex nut, #40	MOU	534-7311	2
6	G1,2	rod banana jack	MOU	573-00484	2
7	J1,2	red banana jack	RS	274-662	2
8	J3,4	black banana jack	RS	274-662	2
9	J5	BNC jack	RS	274-105	1
10	R1,2,3	pot., 500 ohm, linear	MOU	31VA205	3
11	R4,5,6	resistor, 10 ohm	RS	271-001	3
12	R7	resistor, 180 ohm	MOU	296J250-150	1
13	S1	switch, DPDT, on/on	MOU	10TX560	1
14	S2,3	switch, SPDT, on/off	MOU	10TX034	2
15	T1	RF transformer, 1:1	MCL	E1-6-165	1
16	T2	delay transformer	MCL	T2-1T-X65	1
17	T3	delay line, 600 ns	MCL	P2420-600NS-100	1

Misc. items: hook-up wire, buss wire, solder, labels "AS REQUIRED"

Table 3: Mini-MWT-3 (companion regen. preamp.) hole-drilling list

For X, Y, D parameter definitions and for drilling instructions: see Table 1. For Mini-MWT-3 schematic, see Figure 2.

Chassis Box = Mouser # 537-47-779; 5" X 4" X 3"

LEF T S I D E

Hole #	Design.	Description	X	Y	D
1	G1	GND R/W - internal lug	0.0	1.125	0.125
2	J1	RF source in - BNC jack	0.0	0.5	0.375

T O P S I D E

Mounting holes on C1 must be tapped to 6-32 thread.

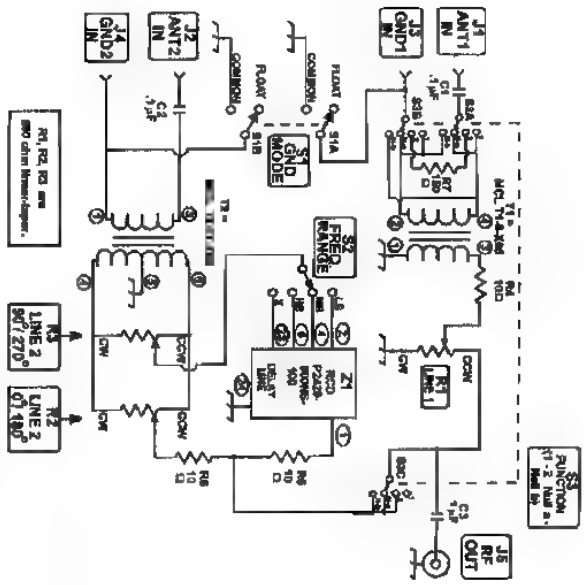
Hole #	Design.	Description	X	Y	D
1	C1	Tuning cap. - mounting R/W	-1.963	3.25	0.144
2	C1	Tuning cap. - shaft	-1.5	3.0	0.5
3	C1	Tuning cap. - mounting R/W	-1.037	3.25	0.144
4	-	C1's vernier knob - R/W	-2.14	2.375	0.125
5	-	C1's vernier knob - R/W	-0.86	2.375	0.125
6	R1	Input Atten. Pot. - shaft	-1.8125	0.75	0.3125
7	R1	Input Atten. Pot. - cab	-1.5	0.75	0.144
8	S2	Function switch - tab	-0.25	3.125	0.144

Table 3 (continued)

R I G H T S I D E

Hole #	Comp. Design.	Description	X	Y	D
1	A1	Regen. Front-End card - R/W	-1.5	1.5	0.125
2	A1	Regen. Front-End card - R/W	-1.5	0.5	0.125
3	A1	Regen. Front-End card - R/W	-1.5	0.125	0.125
4	A1	Regen. Front-End card - R/W	-0.7	0.5	0.125
5	J3	B+ input - phono jack	0.0	1.125	0.25
6	J2	RF out - BNC jack	0.0	0.5	0.375
7	A2	Buffer amp. card - R/W	1.125	2.2	0.125
8	A2	Buffer amp. card - R/W	1.125	0.6	0.125
9	B2	Function switch - shaft	0.25	3.125	0.375
10	R2	Regen. Control pot. - shaft	0.0	0.75	0.3125
11	R2	Regen. Control pot. - tab	0.3125	0.75	0.144
12	G2	GND R/W - internal lug	0.875	0.5	0.125
13	S1	Bandswitch - shaft	1.125	2.0	0.375
14	S1	Bandswitch - tab	1.625	2.0	0.144

FIGURE 1: DL-1 DELAY - LINE PHASING UNIT - SCHEMATIC



IRCA AM-FM Almanac - 1991 Edition Reprint

IRCA has reprinted a limited number of copies of the 9th Edition of the IRCA AM-FM Almanac. Several DXers have expressed interest in obtaining the most recent Almanac edition from 1991, rather than waiting for the next complete Almanac in 1994.

◆ 1991 Edition - this is the edition sent to the press in October, 1990. Information is from 1988 thru 1990. Much of the information is still useful today.

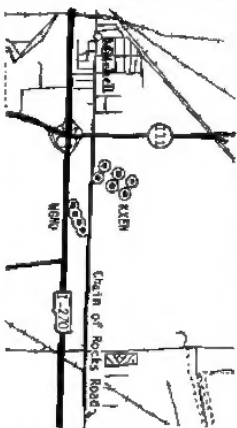
◆ Be sure to state your preference for looseleaf or Comb Binding. This edition is available looseleaf, ready to hole-punch and place in a binder, allowing for easy updates. Comb binding is available at no extra charge if you request it. The price for this reprint is the same as in 1991.

IRCA/NEC member: U.S. - \$13.00 Canada - \$14.00 Overseas Sea Mail - \$14.00 Overseas Air Mail - \$17.00

Non-member: U.S. - \$15.00 Canada - \$16.00 Overseas Sea Mail - \$16.00 Overseas Air Mail - \$19.00
Send check or money order, payable to "IRCA" in U.S. funds, to Phil Bryzewski, IRCA Bookstore, 9705 Mary N. W., Seattle, WA 98117. Thank you!

Target DX

Bruce Conti bc@lexikon.com
46 Ridgefield Drive
Nashua, NH 03062-1174



TOWER TIP

KTUO - 850 - Clayton, MO
5,000 / 3,600 Watts L1 (KOA)

CONTRIBUTED BY: Ede R. Bums, MD

WHAT TO LOOK FOR: One tower at Concordia University, Valparaiso from 1-64 to 10-64. About 2 miles SE of Acapulco, Clarton.

WOW-FM / WBSK-AM
645 Church Street • Suite 201
Norfolk, VA 23510

The term parallel is used to describe when two or more radio stations are carrying the same program material. Everyone's

music from the Real Country network, or Oldies Coast-to-Coast from Canada, on several stations at the same time. Parallel DXing can

CKTS-900 relay, CJD-800, and WVEI-1440 relay. WVEI-590. Consult the NRC Domestic Log and the ICA's Almanac for

aren't very good at identifying or translating foreign languages. Just match up a station with a parallel, and you could have one or two

by a distinct echo. The echo is heard because there's a delay due to the amount of time it takes sound to travel from the program source to the receiving station. If you hear the echo

synchros operating on several frequencies, too numerous to list here. More on Spain/Canary Islands synchros can be found in the WRTM or the recent Newfoundland DXpedition report.

Albania	070-KLUC/040-KNDF/1930
Algeria	KN5A.
Anguilla	891//981.
	ex-690//1610, no longer parallel.

WOW-FM / WBSK-AM

Colombia	RCN, 760//770//1000.
Cuba	R.Rebelde, 600//620//670//710 //890//5025, ex-3365 (appears to be a new station)

Dominican Republic R Universal, 650 / 920.
/ 900.

Hungary
Jamaica
//St.Pierre-1375.
Megyar Radio, 1188//1251//13
JBC R.One, 560//620//700//75
/1990

Mexico R.Education, ex-1060//6185, reported no longer parallel.

Russia 1386//1494.
St.Kitts 830//7510-KTBN.
Sao Tome VOA,1530//7405//11820.
Saudi

Turks & R. Vision Christiana,
Cairns 535//1330-WWRV NY.
United Arab
Emirates 1476//11945.

Venezuela R.Tachira, 1000 // 4830,
// = parallel, all frequencies kHz.

programming 100% of the time. Good luck chasing parallels, and be sure to report any additions or changes to Target DX or IDXL.

Geomagnetic Summary

High "A" values indicate possible auroral conditions

Phil Bytheway
9705 Mary NW
Seattle, WA 98117-2334

Geomagnetic Summary March 15 1994 through May 8 1994

Soft copies of this report available through phil_bytheway@aik.com

Date	FLUX	A	K	SA	GEO	OTHER
3/15	87	36	4	very low	active-mis	mis 0000j swa
16	86	16	5	very low	quiet-active	swa
17	85	26	5	very low	unsettled-mis	-
18	87	18	4	very low	quiet-mis	swa
19	89	13	3	very low	quiet-active	swa
20	89	8	2	very low	quiet-unsettled	swa
21	91	21	2	very low	quiet-active	swa
22	91	13	4	very low	quiet-active	swa
23	92	13	2	very low	quiet-active	swa
24	93	16	1	low	quiet-mis	swa
25	91	13	3	very low	quiet-unsettled	swa
26	89	7	1	very low	quiet-unsettled	swa
27	88	6	2	very low	quiet	swa
28	88	7	1	very low	quiet-unsettled	swa
29	86	6	3	low	quiet	swa
30	86	11	2	low	quiet-unsettled	swa
3/31	85	7	1	very low	quiet	swa
4/1	82	5	2	very low	quiet-unsettled	swa
2	79	25	6	very low	unsettled-mis	mis 0900
3	77	48	4	very low	active-mis	mis 0600
4	77	30	4	very low	unsettled-mis	mis
5	77	25	4	very low	unsettled-mis	mis
6	73	30	5	very low	unsettled-mis	mis
7	73	27	6	very low	unsettled-mis	mis
8	73	31	5	very low	unsettled-mis	mis
9	73	34	3	very low	unsettled-mis	mis
10	75	25	3	very low	active	mis end 0600
4/11	74	32	4	very low	unsettled-mis	-
12	74	17	3	very low	quiet-active	-
13	74	23	3	very low	unsettled-mis	-
14	79	19	3	very low	quiet-mis	-
15	80	15	5	very low	quiet-mis	-
16	82	23	6	very low	quiet-mis	-
17	82	63	3	very low	quiet-mis	mis end 2030
18	84	17	3	low	unsettled-active	mis end 1500
19	85	16	3	low	quiet-unsettled	-
20	86	11	2	very low	quiet-active	-
21	87	9	2	low	quiet-unsettled	-
22	85	7	1	very low	quiet-unsettled	-
23	85	6	2	very low	quiet-unsettled	-
24	83	9	2	very low	quiet-unsettled	-
25	83	6	1	very low	quiet	-
26	81	7	1	very low	quiet	-
27	78	4	1	very low	quiet	-
28	77	2	2	very low	quiet-unsettled	-
29	78	5	0	very low	quiet-unsettled	-
4/30	75	1	2	very low	quiet	-
5/1	75	20	5	very low	unsettled-mis	mis 2100
2	76	30	5	very low	unsettled-mis	mis
3	74	32	4	very low	unsettled-mis	mis
4	73	22	4	very low	active	-



Post Office Box 370
Brownsville, Pennsylvania 15417

The Brownsville "King Bee"
Keeps Business Buzzing!



5	73	24	5	very low	unsettled-mis
6	74	23	5	very low	unsettled-mis
7	74	27	4	very low	unsettled-mis
5/8	74	24	4	very low	quiet-mis

As a special project, I am going to compile an audio tape of TIS messages from all over the US and Canada. I can accept either reel-to-reel or cassette tapes, and the announcement should be readable (not faint DX, although clear DX is OK). Please include call (if known), location, frequency, date and time with each submittal. The length of the final product will depend on how many submissions I get... but I am hoping for at least two sides of a C60 and copies of the final product will be available for a nominal charge. My deadline is August 1 1994. Send tapes to: Phil Bytheway, 9705 Mary NW, Seattle, WA 98117.

NRC E-Mail Addresses ... compiled by Paul Sweathagen (PissCUDEN@AOL.com)

During the past year or so, the number of NRC members who joined others with E-mail (electronic mail) addresses on the information superhighway burgeoned. E-mail addresses holders correspond directly and so quickly now that they have dubbed USFS-delivered messages "Snail Mail!"

Those who have E-mail addresses have a computer and a modem which allow them to tap into phone lines. They have joined an electronic bulletin board or service, such as FidoNet, America On Line, Prodigy, CompuServe, Delphi, or one or more of several others, and obtained a unique E-name, which usually is limited in length and can consist of numbers or letters or both. The government-sponsored Internet, in turn, connects these systems (and many other entities) and passes messages back and forth at a nominal fee or just as a service of the electronic service.

E-mail is extremely fast. I have received a message within two minutes of posing a message to an individual who belongs to a completely different service than I do. It also does not protect the anonymity of the sender, so that the recipient never has to put up with "hate" mail. It is also quite convenient, as unlike the telephone, one can retrieve messages from the service at leisure.

Disadvantages do exist. User fees can mount when one is composing replies while on-line; and those who receive many messages may find that downloading (retrieving) messages can take some time and effort.

Nevertheless, most E-mail address holders want to be able to correspond with others via electronic means. The following is a first attempt to compile E-mail addresses of NRC members who have either corresponded with me or specifically let me know that they wanted their E-mail addresses published in DX News. I've listed the complete addresses as furnished to me, and when an individual has more than one address I've tried to list the name of the service except for AOL (America On Line), Prodigy, and CompuServe, which are obvious. Please note that you may not need all of the address to correspond with

Sтивен Алекс	stevan_alexey@HAL9K.com
Гери Бишоп	73171.2265@compuserve.com
Дэвид Браун	DPHT10A@prodigy.com
Эрик Бушман	dkx134@prodigy.com
Пил Бйтуэй	bytheway@AOL.com
Алекс Калбренс	BUTYCHUS@AOL.com
Марк Конелли	MARKWALION@AOL.com
Брюс Конли	@C@textcon.com
Ричард Д'Анجيلо	r.dangelo3@geneticis.com
Барри С. Финкел	bl9141%ANLVM.BITNET@UCVM.UIC
ДУ	
Джордж С. Грин	74367.3305@compuserve.com
Билл Хейл	MTHH112A@prodigy.com
Билл Харди	73201.2263@compuserve.com
Нэнси Харди	FMHF721A@prodigy.com
	(same as Bill, except)
Эрл Хиггинс	FMHF721B@prodigy.com
Рона Муско	Higgin@amsa.mde.com
Стивен Н. Пондер	MUSCORJ@isdwl.utc.com
Ат-Ворк:	
	spunderf@scdi@jesnic.jsc.nasa.gov
	shp5511@um0003.jsc.nasa.gov
	nbarship@scprofs.nasa.gov
Ат-Хоме:	
	spunder1@aol.com
Ал Фрате	n5whisp@btkbox.com
Джим Ренфrew	71212.1644@compuserve.com
Ричард Е. Робинсон	JimRenfrew@AOL.com
Грей Скрингсгор	reerobins@moac.unc.edu
Рокки Стоун	70614.3561@Compuserve.COM
Фред Воббе	Gutripick@AOL.com
	71533.657@AOL.com
Фред Воббе	Fred.Vobbe@116.n234.21.fidonet.org

RFI From Household Electronics

by *Perry F. Crabill, Jr., W3HGX*

I recently discovered that our late-model TV set was emitting radio-frequency interference throughout the long-wave beacon band WHILE TURNED OFF! Unplugging the power cord killed the RFI, and reconnecting it started the interference again.

This is a Zenith 20" Sentry 2 MTS Stereo Color TV Model SJ-2065-W, with infra-red remote control. The interference was manifested as buzzy, slightly broad and unstable signals, apparently harmonics of a 36.96 fundamental frequency from their spacing. The signals were strong enough to drown out weak NDB stations. They could be nulled in the Drake R-8 with my 2-ft. homemade loop; the null was in the direction where the local TV cable system's coax entered the building.

For this reason, I had attributed these signals to radiation from the cable system; however, they persisted when I disconnected the cable at the outdoor lightning arrester and splitter. The signals did disappear when I opened the main a-c power switch, showing they came from inside the house. After restoring power, I used a battery-powered Sony ICF-2010 on the long-wave band as a search receiver tuned to one of the harmonics. Eventually, I found the source of these signals was the turned-off Zenith TV located in the bedroom next to my listening post. Right at the TV set, the harmonics were strong enough to light up all of the Sony's signal strength LEDs.

Disconnecting the cable system's coax from the TV did not affect the QRM as observed in the shack, nor did adding an a-c line filter at the power outlet for the TV. The only action affecting the offending signals was to turn on the TV, or to disconnect its power cord.

Incidentally, the harmonics of the 36.96 kHz radiation were not limited to the 190-530 kHz NDB band; they were found well up into the shortwave spectrum. In fact, I derived the frequency of 36.96 kHz by zero-beating the 100th harmonic at 3696 kHz with the Sony's BFO.

I have no way of knowing whether this behavior is generic to some feature of the TV set, such as the remote control circuitry or not; it could possibly be a malfunction. I checked with a local TV shop franchised by Zenith, and the technicians weren't able to help me. I plan to write Zenith for their opinion.

This experience prompted me to check other household electronics equipment for radiating signals while turned off. The VCR associated with the Zenith in the bedroom was clean, as was the older Zenith TV in the living room. The living room VCR, a Sanyo VHR-3350 VHS HQ Model with infrared remote control, radiated a strong signal at 525 kHz, with fairly strong second and third harmonics. However, these signals weren't audible in the shack two rooms away.

Our AT&T Model 5500 cordless phone in the living room was generating a 300 kHz fundamental signal, with harmonics up into the SW region, while on-hook. Going off-hook had no effect on this signal. It and its harmonics could not be heard in the shack; they were detected only in the immediate vicinity of the 5500.

The Brother Model 600 Facsimile machine in the shack generated spurious signals at the low end of the AM broadcast band while in a stand-by mode. The actual frequency varied according to the answer mode; for Auto Answer, the frequency was 557.9 kHz; for Manual Answer, it was 561.7 kHz; for TAD (Telephone Answering Device) it was 554.2 kHz. Again, harmonics from this equipment extended up into the SW spectrum. This machine was located four feet from the Kiwa loop used for BCB DX'ing. I had realized previously that the Brother fax caused interference when operating, but never considered it as an RFI source in standby.

The last piece of radiating turned-off equipment turned out to be the Kenwood R-5000 general coverage receiver stashed away in the basement until the shack is remodelled. It was plugged in to keep the memories alive and minimize any problems from humidity. The Sony showed a whole series of strong signals in the beacon band with a spacing about 17.56 kHz apart which disappeared when the power cord was disconnected. Interestingly enough, turning the R-5000 on caused these signals to change from a pure cw beat note to one modulated with a buzz which remained even after it was turned off. However, unplugging it from the power and reconnecting it restored the pure cw beat. These signals couldn't be heard a few feet from the R-5000; however, one wonders what would happen if it were in the shack with the Drake R-8 and its 2-ft. loop.

Because of these findings, when I want to DX the 190-530 kHz beacon band late at night, I unplug the offending TV set, along with the automatic night light in the bedroom which generates broad-spectrum noise interference. I also turn off the solid state tuners that control the front and side porch lights, and make sure that the 20-watt fluorescent light in the kitchen used as a night light is also off. The cabinet humidifier in the kitchen uses a solid state speed control for the fan and moisturizing pad, so I turn that off too. After all this, I sometimes find that the atmospherics are too strong to make listening worthwhile, and turn everything back on and go to bed!

Musings

Dave Schmidt
P. O. Box 11502
Wilmington, DE 19850-1502

These are local per Musings, submit double-spaced only. Thoughts from NRC members ... the opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the editors, publishers, or the National Radio Club, Inc.

BRUCE REYNOLDS - 917 GOODWIN AVENUE - SAN JOSE, CA 95128
----- Well, after nearly 16 months of silence, 1370 is again occupied here. The new KRSJ began running promos on 4/23 and began regular programming on 4/25 as "Magic KRSJ" emulating the nostalgia format formerly heard on KRCG-610. Other new cackches: 3/31 CRBD-800 at 11PM for a call change; 4/1 KVP-540 at 6AM with religion; and 4/8 KCMX-580 at 6AM with newstalk format, KTKK-750 in very well with talk at 6:22AM, and KCMX-1360 at 6:35AM with sports talk for new call. These latest additions bring my 3 year total of stations taped to 498. Varies were received from the KARI & KVRV DX Tests, but several reports are outstanding to other DX Testers, generally the only ones I report these days. The 4/25 dx NWS mentioned that KTRD-1500 was silent. I can't normally hear them anyway at this location because of the local on 1500, but based on the content of a news article of a few weeks ago, I suspect they are off temporarily for the installation of new equipment. The local paper reported that KGO-810 was silent for 90 minutes on the night of 4/21 due to an equipment malfunction, but I missed it. According to Herb Caen's column in the 4/29 SF Chronicle, the FCC has approved the sale of KKH-1550 to Westinghouse, which will change it from classical to all news station with the same KPX calls as the TV station owned by Westinghouse. Caen says the format change could come as early as 6/1 and that KKH will scrap the all night show as of 4/30. There are plans to up the power to 50kW, so there's a good chance for considerable silent time in the short term.

JIM RENFREW - 61 WILCOX STREET - ROCHESTER, NY 14607-3832

----- Well, in talking with BEN DANGERFIELD on the phone last night, I realized I hadn't sent in a MUSING in some time. I've been DXing since about age 12, first with a Heathkit that I built with my Dad's help, and now with a Hammett and HQ180 & Sony 2010. My last logging way back then (197) was WJLO-640, my most recent loggings this week were WSL-1530 & WGNW-1210 (both call changes). Best loss of the 93-94 season include KTRN-770, St. Vincent-705, KUON-770, WMSW-1170 (PE), CFJP-1000, & CR7-1140. Verified during this season were new countries Co-Jumbia & St. Lucia, new province NS, & new states CO & SD. I've logged almost 1500 stations from Rochester since 1976, from 43 states & 47 countries. After my last year of parenting our 9 year old son, I have to admit that DXing has taken a real dive. These days, I only manage to tune in on Friday or Saturday nights. Even then I can't give it my full attention, because I'm busy preparing my Sunday sermon. You'd never know from reading DXDX, but I am a Presbyterian minister working with 2 churches, one in the city of Rochester and the other in the rural town of Bergen. Both churches are struggling to survive from week to week, so I keep very busy. And with so many DXDX reporters, lately, the rest of my free time seems to go into typing! Actually, some of our most prolific reporters send their loggings in by E-mail, which considerably shortens the typing time! Thanks to everyone who makes DX NEWS happen! (Welcome to this side of the fold, Jim, you're doing a great job with DXDX-DMS)

JOHN TUDENNAN (W0HRP) - 2824 MISSOURI - JOPLIN, MO 64804-2725

----- We had a good time at the St. Louis get-together 4/16-17, ERIC BUEHNMAN did a great job! We enjoyed meeting the same DXers we had seen last Nov. at Bella. MO plus several more. On the local scene, KFSB-1310 has changed format and is no longer 24 hours, now operating 6:30A-1M. They simulcast their sister FM KIXQ-93.9 except for mornings and evening drive time when they have local news & sports talk. They also now carry KC Royals baseball and St. Louis Blues hockey plus local college sports. Their FM is CW. A very good move since the FM is the top rated station in the area. Have logged one new station on 1300, KXOR with newstalk & TD. Have heard Spanish on 1310 which I have yet not IDed, probably KXRAM. Thinking of another MO get-together here in Joplin, maybe in late summer/early fall. Have found a local motel with reasonable rates. If anyone is interested, let me know! 73

BILL ALISANDRAS - 7553 HILLSIDE DRIVE - DUNELASVILLE, GA 30134

----- Hello again! It's been quite a while since I've MUSED, but not being too active DX wise makes it that way. Question is what happened in Clinch-nat? Early this week, there was a tape loop on 1530 saying W0R moved to 550. Now WSAI is parallel on 1360 & 1530, tape loop was on 1360 on 4/14 advising the change, they were parallel this AM 4/15. Who's going to fill 1360? Anyone, any info on this mess? Also, as you know, WPTT-1360 is gone, the IRS shut them down for \$95,000 in back taxes. I really doubt they'll be back, there goes radio job #2! Otherness, only one big item, noted CRBD-1010 way atop the channel 4/8 6:24 AM, 1st time noted here. Totals - who knows? My records are in awful shape! So much for now, hope all have a good summer! My records are in awful shape! So

GERY BISHOP - 126 DYER STREET - NICEVILLE, FL 32578

It has been a quiet winter here in Niceville, a little colder than normal. I had less DX than usual, as well, mostly due to grad school & work. Can't complain, though, as I added MD, through WCEI, to the log from this den. Thanks, DAVE! Several of the tests came through well, but New England continues on the most wanted list from here. Looking over past logs, I've discovered I've never logged WJ from any location. WJVR didn't show, either, to keep my record perfect! I make a habit to send a thank you card to stations which test, but I didn't hear despite trying. I won't mention any calls, but I have 3 verities from this season, verifying reception I did not make. What do you other WJERS think? (Sounds like file #13 material to me, Gerry-DWS) Should I continue to send 'thanks' for tests I didn't hear and get verities that really aren't or should I write only if I hear them? Local radio seems to be pretty stable here in Okaloosa County. WNUB-1400 is still silent as is WGNB-1010. WJVR-1120 tested once last Aug., relaying WFSR-1360 but has been silent since that time. Edlin ARB now has a new public service radio station on 530, 10 watts. Its purpose is for public affairs information, severe weather warnings & military recalls. It gets out about 15 miles during the day. 73s

ERIC BUREMAN - 631 CONCHWAY LANE - HAZELWOOD, MO 63042-1347

The St. Louis DX get-together held over the 4/6-17 weekend has been declared a success for the most part. MO was the most represented state. In attendance were: yours truly (Hazelwood), JOHN TUDERMAN & wife BECKY (Joplin), GIL MORGAN (Stockton), WALT BREVILLE (Afton), loop designer & ex-NRC'er Bob Flick (Greve Creek), WTPDA member Keith Smith (St. Ann), CBR David Box (St. Louis). IL was represented by JOHN CALDERMAN (Mt. Vernon) & WTPDA member Bill Eckberg (Dixon). ERNIE WESOLOWSKI came in from Omaha, NE & he brought a friend of his, Don Payne from Leawood, KS for a grand total of 12. The gathering started with discussions on antennas and DX, Bob Flick & David Box offered further input with antenna & crystal set designs. After lunch, 8 DXers made the trip to KCFY-89.5 where I showed them the station, and how things are done at a college radio station. Following that and a short discussion period at the hotel, the 45 minute trek to Wentzville, MO was made to the shack of Vern Jackson WABCR, who runs the amateur radio bulletin station on 1860kHz. A very detailed tour of Vern's broadcast style set up and a look at his 110' tower soon followed. Back to the hotel for more discussions, and a trip home to pick up more verities, a vertie arrived from the recent WJIC-1510 test with a coverage map, business card & bumper sticker. After dinner, a DX session followed mostly on FM, demonstrating an FM/WHP-TV loop that GIL MORGAN had made. The room had AM/FM radios built into their TV sets so I tried the AM side in my room, and noted WPAO-1560 dominating 1M 4/17. The WJIC move from 1400 to 1300 was also confirmed. Despite the success of this CFC, St. Louis will not be in the running for the 1995 NRC convention but may bid for the 1996 convention. In local changes, KXOR-630, by the time you read this, will have changed to KJSL, and switches to Christian programming. 630's silence allowed me to log several new calls on 620, 630 & 640. WFSR-1490 is once again noted in AM Stereo. The DX season has wound down here with the final totals for the season (5/1/93-4/18/94) as follows: 234 heard (237 since 3/1/93), 100 verified (a 43% return rate), several hard to hear states were logged (several thanks to DX TESTS) & 2 scrubborn non verifiers (WPAO-660 & WMAN-1180) finally answered! As of 4/18, DX TEST holdouts include KSD-550, WJLS-960 (that may not have been on, RJC-DWS), WFRM-600, KURL-730, WCCG-1270, WTRN-1340, KNNC-1370 (centative), KVOV-1450, WSSR-1510 & KCMN-1590. Most recent verities: WPAO-1240 (with WDBR-103.7), RBCO-1190 & WJIC-1510, as noted. Thanks to DAVE for the WNRK-1260 CM, even though the test wasn't verified, and thanks to all who have done a good job for the NRC CFC this year. 73 & good DX!

DAVE SCHMIDT - P O BOX 11502 - WILMINGTON, DE 19850

It looks like the combo of WVCB-740/WJEE 89.5 may be running 24 hours by the time you read this. The 740 is one worth trying if you didn't get it on the DX test last year, all of 5 watts! Sorry about that BBN D.I. A 6/1 affidavit for WJHL-89.1 looks like it may be taking place, construction moves along with that one. BOB LENO, CB at WMAN-590 advises that WJIC-1440 is now silent, having lost the lease on the ground of their transmitter/tower sight and having it taken down already! Missed the WEMN-1460 DX TEST on 5/7, the sandman got me on that one. ERC mentioned a few issues back of an overvoltage problem on his SM2 using batteries such as Duracell, Energizers, et al, and not being able to locate the old, standard mercury 9 volt batteries, which for some reason, do not overload (mine does it also). Everyday still has the silver 9 volt 'classic' available, it is #216, and I have found them locally for 2 packs for \$3 (4 batteries). Remember, now that the season is just about wound down, now is a good time to have your set checked, and may I make the offer for R290A & H0180 repairs & alignments by John Tiedack & myself. Please contact me at the above address if you may be interested for prices, shipping, etc. Please make an effort to drop in a few lines, let us know what you thought of this past season, what your goals are for the upcoming season, what your best catches have been, anything which is related to what this is all about...DX! 73 & CON4 (weeks that is!)

1994 National Radio Club Convention

September 2 - 5, Labor Day Weekend

Nashua-Manchester, NH

New Hampshire, *The Granite State*, welcomes the National Radio Club for its annual Labor Day weekend convention. The convention site is central to all that New England has to offer. The mountains, seacoast, and historic Boston are all within an hour's drive.

Program of Events

The convention program has something for everyone. Upon arrival on Friday night, convention goers will receive a souvenir packet loaded with information on how to get the most out of your stay in New Hampshire, including maps and radio station information. The hotel's *Presidential Suite* will be open for NRCCers to renew old acquaintances and make new ones. Radio station tours are scheduled for Saturday morning, to include the WKBR-1250 studio and transmitter site and the "mini-WLW" WFEA-1370 transmitter site.

Saturday afternoon, a group will be assembled for a tour of the Anheuser-Busch brewery and Clydesdale hamlet. The entire process is explained on the tour, from grain storage to beerwood aging to bottling. Participants are then invited to a beer-tasting. Following the brewery tour, is a short walk through beautiful flower gardens to the Clydesdale hamlet, to see the workhorses that have become a Budweiser trademark.

Saturday night is reserved for the traditional banquet and auction. Banquet guest of honor Mr. Bob Bittner, WJIB/WKBR owner and manager, will speak about his experiences in AM radio. Don't forget to bring your bumpsticker, hit lists, coffee mugs, T-shirts, and other radio related items, along with DX gear, to donate to the auction and support your NRC! Door prizes will also be awarded.

Sunday seminars will cover such topics as FCC rules, broadcasting, reception reports, and phasing techniques, along with the NRC Quiz. A trip to the seacoast for some 1A DXing may also be on tap, as NRCCers will be free to step out on their own and discover New England.

Convention Hotel/Reservations

The convention will be held at the **Ramada Hotel at Merrimack**. The hotel is located at Exit 11 of the F.E. Everett Turnpike, just north of downtown Nashua. The hotel features the *Sporting Club* restaurant and lounge for breakfast, lunch, and dinner, with room service available. For exercise, try the indoor swimming pool or take a quiet walk along the trails in the Merrimack Forest. The entire hotel is handicapped accessible.

A block of 50 rooms are set aside at special rates of \$45.00 single/double and \$55.00 triple/quadruple, not including 8% tax. Rates and rooms are guaranteed available until August 26. The hotel is now accepting reservations at (800)922-3477 or (603)424-6181. Be sure to mention the National Radio Club convention for special rates.

Transportation

Air service is available from two convenient points - nearby Manchester Airport, and Boston's Logan Int'l Airport, one hour's drive away via U.S. Route 3. The hotel offers complimentary van service to and from Manchester Airport. M-F 8am-10pm, given 48 hours notice. Several independent shuttle services operate to and from Manchester, Logan, and Boston's Amtrak train station. Make reservations directly with one of the following, or consult your travel agent.

- * M and L Transportation (617)665-7791 Logan hourly service.
- * Minuteman Airport Service (508)649-9829 Manchester, Logan, and Amtrak.
- * Hudson Bus Lines (603)883-4807 Logan Airport service.

Individuals are responsible for their own room reservations and transportation to and from the hotel. The NRC will not be involved in room sharing and airport transportation arrangements.

Convention Registration

A registration fee of forty dollars (\$40.00) per person (\$16.00 children under 12), which includes the banquet, is payable in advance. Checks payable to the *National Radio Club* may be sent to NRC Convention, c/o Bruce Corti, 46 Ridgely Drive, Nashua, NH 03062-1174 before August 26. Please register before August 26, to insure seating for the banquet. Specify whether you prefer chicken or beef. For further info, send a SASE with your specific inquiries to the same address. Hope to see you for the New Hampshire 1994 NRC Convention! 73s

